

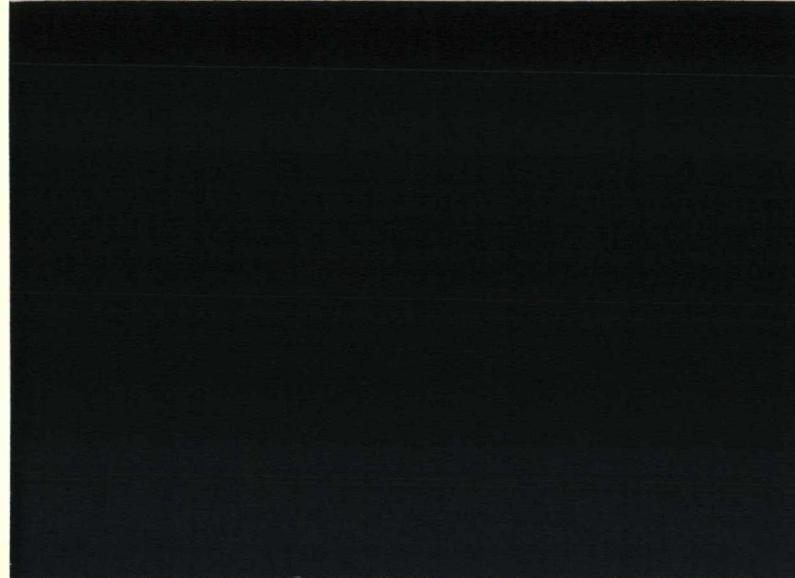
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November 24, 1993

CERTIFIED MAIL

Mr. David Croxton
U.S. EPA
1200 Sixth Avenue, M/S HW-106
Seattle, WA 98101

Mr. Croxton:

Enclosed are revisions to the Interim Measures Justification Questions for the Burlington Environmental Inc. Pier 91 Facility. These revisions are based on USEPA's October 25, 1993 (Gearheard/USEPA to Stiller/Burlington) review of the Draft Interim Measures Justification Questions submitted by Burlington on September 27, 1993.

If you have any questions please contact me at (206) 654-8153.

Sincerely,

John Stiller
Project Coordinator

cc: Galen Tritt - Ecology NWRO



**BURLINGTON RESPONSE TO EPA
COMMENTS ON PIER 91
DRAFT RESPONSE TO INTERIM MEASURES JUSTIFICATION QUESTIONS**

As requested in EPA's October 25, 1993 letter to John Stiller, Burlington has revised the Response to Interim Measures Justification Questions. While Burlington agrees that stabilization measures could reduce potential adverse impacts to the environment due to past releases from the Pier 91 facility, Burlington disagrees with the statement, "It is also clear that stabilization actions could measurably improve the situation and decrease contaminant loading to Elliot Bay and Lake Jacobs", since it is not clear to what degree, if any, contaminant loading is occurring to Elliot Bay and Lake Jacobs as a result of past releases from the Pier 91 facility. To Burlington's knowledge, no definitive data exists documenting contaminant loading to Elliot Bay or Lake Jacobs as a result of releases from the Pier 91 facility. In addition to revising the sections specifically addressed in EPA's comments, Burlington has provided additional information and responses to several of EPA's comments below.

Section C1

Burlington is not disputing that the groundwater beneath the facility eventually discharges to Elliot Bay. However, Burlington does disagree that "it would only take 6 years for on-site contaminated groundwater to reach Elliot Bay". The six year time-frame is based only on advection and does not include other contaminant transport processes such as degradation and adsorption. The two year time of travel calculation to Lake Jacobs is also based only on advection. Actual contaminant transport from the site to Lake Jacobs and Elliot Bay may be significantly longer than 6 years, and degradation and sorption processes may effectively reduce the concentrations of contaminants at the point of discharge to negligible levels.

Groundwater flow and contaminant transport from the Pier 91 facility may also be affected by the construction of West Garfield Street, located between the facility and Elliot Bay and Lake Jacobs. Construction details from 1918 for W. Garfield Street show that the road was constructed using bulkhead construction techniques. The bulkhead extends approximately 20 feet below grade and was constructed of treated timber plank sheet piling that was tied to another, shallower lagging system located north of the bulkhead under the road. The bulkhead may extend into the silty sand confining unit. It is possible that the bulkhead has been updated with steel sheet piling since construction of the original bulkhead. Regardless, the presence of a bulkhead in the shallow aquifer between the site and Elliot Bay probably affects the direction and rate of groundwater (and contaminant) flow south of the site.

Although contamination of Lake Jacobs has already occurred, the only known release was caused by pipelines leased by Panoco and not by actions attributable to Burlington. Burlington is not aware of the other contaminant sources referenced by EPA, except possibly the short fill project.

Section C1 has been revised in response to EPA's comments.

Section C2

Section C2 has been revised in response to EPA's comments.

Section C3

Again, Burlington disagrees that time of travel from the facility is approximately 6 years to Elliot Bay and 2 years to Lake Jacobs. Retardation processes such as sorption and decay have not been considered in this time of travel calculation. In addition, the presence of the West Garfield Street bulkhead may significantly impact the rate and direction of groundwater flow in the upper aquifer.

Section C3 has been revised in response to EPA's comments.

Sections C4 and C5

Burlington is not aware of any ecological impacts that have been observed as a result of releases from Burlington's Pier 91 facility. In addition, Burlington does not anticipate ecological impacts due to releases from the site. However, due to the presence of floating product and groundwater contamination at the site, the potential for ecological impacts from past releases at the Pier 91 facility does exist, and therefore, a threat of ecological impacts to Lake Jacobs may also exist.

Sections C4 and C5 have been revised in response to EPA's comments.

Section C6

Section C6 has been revised in response to EPA's comments.

Section C7

Burlington agrees that interim actions at Pier 91 would be beneficial and that they could likely be integrated with final corrective measures. However, Burlington feels that interim measures would be beneficial in mitigating potential ecological impacts from past releases, rather than removing any immediate risk to environmental receptors since no such risk has been conclusively identified.

Section C7 has been revised in response to EPA's comments.

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RESPONSE TO INTERIM MEASURES
JUSTIFICATION QUESTIONS
PIER 91

A. RELEASE CHARACTERIZATION

A.1. What is the source(s) (nature, number of drums, size [area, depth], amount, locations(s))?

Potential sources for the soil and groundwater contamination at the Pier 91 facility include some of the 26 Solid Waste Management Units (SWMUs) identified at the facility, as well other areas of concern (AOC) that were identified during the 1988 Draft RFA and 1993 final RFA. These potential source areas include:

- SWMU 2 - oil-water separator;
- SWMU 1 - main warehouse (regulated hazardous waste storage area);
- SWMU 9 - pipe alley drainage;
- SWMU 17 - waste oil spill area;
- SWMUs 10 and 5 - small yard tanks;
- black oil yard tanks (tanks 90, 91, and 92);
- marine diesel yard tanks;
- SWMU 19 - sewer lines; and
- AOC 2 - various USTs on Terminal 91.
- SWMU 26 - tracks west of building 19

Most of the potential source areas managed or formerly managed oily wastes, oily industrial wastewater, spent industrial coolants, and other waste oils. These wastes may include volatile and semi-volatile compounds, PCBs, and metals associated with waste petroleum products as well as chlorinated solvents that may be found in industrial coolants.

At present, the only known sources for continuing releases to the environment are the impacted soil and floating product present at the site.

A.2. Regarding hazardous wastes or constituents at the source:

A.2.(a). What hazardous wastes or constituents are present?

The only known sources for continuing releases to the environment are the impacted soil and floating product present at the site. Tables 1 through 10 list the constituents present in the soil above method detection limits and constituents present in the groundwater above maximum contaminant levels (MCLs). Where MCLs are not available, method detection limits were used as a reporting screen. Separate tables are included for volatile organics, semi-volatile organics, metals, PCBs, and TPH.

A.2.(b). At what concentrations?

Tables 1 through 10 summarize the concentrations of constituents present in the soil above method detection limits and present in the groundwater above MCLs. Where MCLs are not available, method detection limits were used as a reporting screen. These tables include concentrations of volatile organics, semi-volatile organics, metals, PCBs, and TPH.

A.2.(c). What is the background level of each hazardous waste or constituent?

Analytical data collected from groundwater monitoring well CP-114 may be considered representative of upgradient, background water quality in the upper aquifer. However, since the results of only one sampling event are currently available, no conclusions can be made regarding background water quality within the upper aquifer at the facility.

CP-114 is located in the northeast portion of the site. Monthly fluid level measurements indicate that CP-114 is hydraulically upgradient of the facility. No on-site source areas appear to be located hydraulically upgradient of the well. The well is screened approximately 14 feet below ground surface in the fine to medium sands of the upper aquifer.

During the two sampling events conducted to date, CP-114 was sampled for volatile organics, semi-volatile organics, total metals, and dissolved metals. The results of the first round of sampling are included in Tables 6 through 11.

CP-105B is screened within the lower aquifer and is hydraulically upgradient of the facility. Analytical data from this well may be considered representative of background groundwater quality within the lower aquifer. However, the results of only one sampling event are currently available and no conclusions can be formulated regarding background water quality within the lower aquifer. A second round of groundwater samples were collected in July. These results are currently being evaluated and will be included in the RFI report.

A.3. What are the known pathways through which the contamination is migrating or may migrate and the extent of contamination?

A.3.(a). By what media is it spreading or likely to spread? In what direction? At what rate?

The contamination present at Pier 91 is likely to spread through the groundwater, subsurface soil, and subsurface soil gas. The primary chemicals of concern are petroleum hydrocarbons and chlorinated solvents, which are volatile and can be transported through the unsaturated zone by molecular diffusion and/or advection in the gaseous phase. Contaminant transport via gaseous advection within the unsaturated zone is dependent upon the air-filled porosity and gas conductivity of the unsaturated zone. Transport of the gaseous phase of volatile contaminants directly to the atmosphere is not likely because nearly the entire facility is paved with asphalt or concrete. Only a narrow strip along the north side of the Seafood Processing building is unpaved and the area is not used for any operations.

Constituents that are dissolved in the groundwater may migrate by molecular diffusion and/or advection. Dissolved constituents can migrate in this manner in both the saturated and unsaturated zone. Groundwater elevations indicate that groundwater flow within the upper aquifer is to the southwest, while flow within the lower aquifer is to the south. However, the flow direction in the lower aquifer may be subject to tidal influence. Tidal effects on groundwater flow within the lower aquifer will be addressed in the RFI report.

Light nonaqueous-phase liquids (LNAPL) have been detected at the Pier 91 facility. LNAPLs can migrate along the top of the water table by flowing from higher groundwater elevations to lower ones. LNAPLs can also contribute to the dissolved portion of the contaminant plume by dissolving into the groundwater as the LNAPL layer spreads out along the surface of the groundwater table.

The potential rate of contaminant migration is addressed in question 3 (b) below.

A.3.(b). How far have the contaminants migrated? At what concentrations?

Analysis of off-site data from other sources indicate that contamination is present off-site. Chlorinated solvents have been detected in off-site groundwater monitoring well CP-113. However, the origin of this contamination is not known. The degree of contribution (if any) of Burlington's Pier 91 facility to contamination present off-site has not been assessed. Analysis of data collected during the Phase I RFI will determine the need for off-site RFI work. If required, an off-site RFI work plan may be developed to assess the nature and extent of off-site contamination due to Burlington's operation of the Pier 91 facility.

Since no specific investigation has been conducted to assess the presence of off-site contamination, discussions pertaining to how far contaminants have migrated must be addressed theoretically. Preliminary analyses of data collected during the Phase I RFI

investigation indicate that the horizontal groundwater seepage velocity ranges from 8.4 to 110 feet per year depending on seasonal and tidal variations in water levels. The average seepage velocity is about 35 feet per year. Since the operational and spill history of the facility prior to Burlington's involvement is not known, time of travel calculations cannot be meaningfully applied to the site. However, if a theoretical contaminant was to enter the groundwater at the site, it could travel approximately 35 feet per year in a downgradient direction.

Triaxial permeability testing indicates that the vertical hydraulic conductivity ranges from 4.8×10^{-6} centimeters per second (cm/s) to 8.1×10^{-5} cm/s, which is two to four orders of magnitude less than hydraulic conductivity values for horizontal flow in the upper aquifer.

These calculations do not include possible effects of dispersion, adsorption and/or desorption, degradation, and volatilization. Of these four processes, only dispersion would reduce the time of travel for contaminant migration.

A.3.(c). How mobile are the constituents?

For the purposes of discussing contaminant mobility, the constituents detected at the Pier 91 facility can be categorized as follows:

- chlorinated solvents;
- polychlorinated biphenyls (PCBs);
- polynuclear aromatic hydrocarbons (PAHs);
- non-chlorinated solvents; and
- inorganics

Chlorinated solvents generally have moderate to high solubilities in water, moderate to high vapor pressures and low boiling points. With the exception of vinyl chloride, all chlorinated solvents present at the facility are liquids at room temperatures, and all have densities greater than water. As a group, the octanol to water coefficients are relatively low indicating that chlorinated solvents have only low to moderate tendencies to be adsorbed to organic soils. As a result of their low to moderate adsorption tendencies, chlorinated solvents dissolved in groundwater tend to be retarded with respect to time of travel, but are still considered to be moderately to highly mobile in groundwater.

PCBs have low vapor pressures, high boiling points, and are highly insoluble in water. PCBs are relatively immobile in soil and groundwater because they readily adsorb to particulate surfaces and organic materials in soil. Although a few PCBs are slightly biodegradable, as a group PCBs are highly resistant to decomposition in natural environments and are considered non-degradable.

PAHs have high boiling points, low vapor pressures, are viscous liquids or solids at room temperature, and do not readily volatilize. In general, PAHs have high partition coefficients and readily adsorb to organic materials. With increasing molecular weight, their solubilities in

water decrease and their degradation half-lives decrease. PAHs, in general, are easily degraded in aerobic environments.

Non-chlorinated solvents, such as benzene and toluene, are generally less dense than water. Solubilities vary considerably from less than 1 part per million (ppm) to fully miscible (acetone). They are highly variable in their tendency to partition between water and organic material in the soil; groundwater migration of BTEX compounds is retarded, while the ketones tend to move with the groundwater. Non-chlorinated solvents are generally susceptible to organic degradation in both aerobic and anaerobic environments. Due to their solubility and lack of adsorption, non-chlorinated solvents are considered to be mobile in groundwater.

Inorganics present at the site include chromium and lead. Mobility of inorganic metals in soil and groundwater is highly dependent upon site specific conditions such as mineral content of the soil and anion and cation content of the groundwater. However, in general, solubility and resulting transport of both chromium and lead is dependent upon the pH of the soil and groundwater, with solubility increasing with decreasing pH.

A.3.(d). What are the estimated quantities and/or volumes released?

Soil and groundwater contamination at the facility are thought to be the result of historic releases and waste management practices both at the facility and adjacent to the facility. With the exception of releases described in the RFA report, estimates of specific quantities and volumes of releases are not available. For a summary of historical releases, see the response to question A1 and the RFA reports prepared by PRC Environmental (PRC, 1993) and Tetra Tech (Tetra Tech, 1988).

A4. What is the projected fate and transport to the extent known?

Groundwater is expected to be the main mode of contaminant migration off-site. A beneficial use survey is being conducted and will be included in the RFI report. However, preliminary results indicate only one well within one-half mile of the facility. This well is located approximately 200 feet west of Burlington's facility, was installed in 1943, and is 1050 feet deep. The well is cased, and the uppermost screened interval extends from 250 to 303 feet below ground surface. Therefore, contamination present in the upper and lower aquifers at Burlington's facility should not impact the water quality of this well. The City of Seattle has considered using the well for domestic water supplies. However, the well was sampled in May 1993 and the city determined that several water quality parameters are too high to consider using the well at present time. The well was formerly used for cooling water.

The upper aquifer discharges into Elliott Bay, so contaminants transported off-site may eventually be discharged into the bay. Contaminant transport in the lower aquifer is less well understood due to tidal influences. However, an analysis of tidal effects will be included in

the RFI report and further conclusions regarding the fate and transport of contaminants in the lower aquifer may be possible at that time.

Degradation of the various constituents present in the soil and groundwater at the site varies from essentially non-degradable (PCBs) to highly degradable (PAHs). The tendency for each compound to degrade is somewhat site-specific and depends on whether aerobic or anaerobic conditions prevail at the site. In addition, the availability of nutrients strongly affects the rate and degree of degradation of organic compounds.

B. POTENTIAL HUMAN EXPOSURES

- B1. What is or will be the exposure pathway(s) (e.g., air, fire/explosion, groundwater, surface water contact, ingestion) ?

A complete exposure pathway must have the following three components:

1. a contaminant source;
2. a route of migration; and
3. a potential receptor.

Previous investigations have indicated the presence of volatile and semi-volatile compounds, PCBs, and metals in the soil and groundwater at the facility, providing a source for contaminants. Therefore, this section will focus on the potential routes of contaminant migration and potential human receptors that may be exposed.

The Pier 91 facility is located within Port of Seattle's Terminals 90 and 91, an industrial zone. Terminals 90 and 91 operate 24 hours a day, while the Burlington facility operates 16 hours a day. The southern portion of the Burlington facility including the tank farm is secured by a locked chain-link fence and/or concrete wall. Since there is no means to completely restrict access to the Burlington facility, there is a possibility for trespassers to gain access to the site. However, the entire Port of Seattle Terminal 91 facility (including Burlington's leased portion) is fenced, and Port of Seattle security procedures restrict potential trespassers to Port of Seattle tenants, employees, and other persons authorized for entry to the Port of Seattle Terminal 91 facility.

The entire active portion of the site is paved with either asphalt or concrete, allowing exposure to contaminated soils only during excavating activities such as utility work or further investigations that include drilling and/or excavation. Therefore, ingestion and/or contact exposures would be a concern only for receptors engaged in excavation activities.

Since the entire active portion of the site is paved, exposures to on-site workers or trespassers via volatilization of volatile organics in the soil is not likely except during excavation activities.

Preliminary results of the beneficial use survey indicate that no water supply wells exist within one-half mile of the site. In addition, no water supply wells are present between the site and the upper and lower aquifer discharge points (Elliott Bay). The single well that is within one-half mile of the site was used historically for cooling water, is no longer in use, and is not anticipated for use as a water supply well. Therefore, this exposure pathway (groundwater) is not complete because no potential human receptor has been identified.

In summary, the known complete exposure pathways are dermal contact and/or ingestion of contaminated soil and inhalation of soil vapor during excavation activities. Potential receptors include on-site workers and trespassers. Exposure is likely only during excavation that breaches the asphalt or concrete pavement. Therefore, during normal operation of the facility, exposure to contaminated soil or soil vapors is not likely.

B2. What are the location and demography of populations potentially at risk from exposure (e.g., residential area, schools, drinking water supplies, sole source aquifer near vital ecology or protected natural resource)?

The nearest residential dwellings are approximately 2000 feet west of the Burlington facility, while the nearest school and park are over 3000 feet northwest from the site. A paved bike path runs adjacent to a portion of the site. However, the bike path is fenced to restrict access to any of the Port of Seattle Terminals 90 and 91 operating areas. Access to the site from all of these areas is restricted to authorized personnel by a series of high chain-link fences and a guarded gate. In addition, Port of Seattle security personnel are on-site 24 hours a day. Based on the answer to question B1, the potential for contamination present at the site to impact local drinking water quality is low. No vital ecology or protected natural resources have been identified in the vicinity of the site.

B3. What are the potential effects of human exposure (short- and long-term effects)?

The contaminants detected in the soils and groundwater at the facility include volatile and semi-volatile organic compounds, PCBs, and metals. The potential short- and long-term health effects from exposure to these compounds will vary based on a number of factors including contaminant concentration, type, and frequency of exposure. Quantification of the potential carcinogenic and noncarcinogenic effects of potential exposure to these compounds would require a detailed risk assessment. In lieu of that level of analysis and based on the facility's operations, site setting, and our current understanding regarding the extent and nature of site contamination, the most plausible human receptors appear to be the site workers. However, as previously discussed, the extent and degree of exposure to site workers are not expected to result in adverse health effects under normal operating conditions. Exposure to contaminated soil and volatile soil vapors may occur if the soil beneath the asphalt or concrete

is disturbed. Adverse impact on the local residents during excavation activities is not likely due to their distance from the site (nearly ½ mile) and their location up and cross-wind of the prevailing wind direction.

B4. Has human exposure actually occurred? When may human exposure occur?

B.4.(a). What kind (e.g., inhalation, ingestion, skin contact?)

No human exposure to contamination at the Burlington facility has been reported or documented.

B.4.(b). Are there reports of illness, injury, death?

There have been no reports of illness, injuries, or deaths as a result of exposure to contaminated soil and/or groundwater at the site.

B.4.(c). May people be affected?

Based on our current understanding of site conditions and the potential types of contaminant transport, there is no reason to suspect that the local community is being exposed to site contamination. See questions B1, B2, and B3 for additional discussion of this subject.

B.4.(d). What are the characteristics of the exposed population(s) (how many, infants, nursing home residents)?

A demographic survey of the surrounding community has not been performed. However, no human exposures have been reported or documented.

B5. If response is delayed, how will the situation change?

Based on our current understanding of site conditions and the potential contaminant migration pathways, there does not appear to be an imminent health risk to the local population or on-site workers. Therefore, delaying remedial action at the site should not change this Interim Measures assessment.

C. POTENTIAL ENVIRONMENTAL EXPOSURE AND THREATS

C1. What media have been and may be contaminated (e.g., groundwater, air, surface water)

Contamination has been detected in soil and groundwater at the site. The upper and lower aquifers probably discharge to Lake Jacobs and Elliott Bay. Groundwater contamination and floating product have probably been present at the site for years. Although Lake Jacobs has been impacted by past releases from leased Panoco pipelines, no direct evidence exists to

suggest contaminants have been released to Lake Jacobs as a result of actions attributable to Burlington. However, contaminant loading to Lake Jacobs as a result of releases from Burlington's Pier 91 facility is possible.

C2. What are the likely short-term and long-term threats and effects on the environment of the released water or constituents?

Lake Jacobs is less than 80 feet downgradient of the site. Although Burlington is unaware of data suggesting sensitive habitats exist in Lake Jacobs, waterfowl have been observed in Lake Jacobs. Assessing likely effects on ecological receptors requires data concerning contaminant loading and specific ecological populations that is currently unavailable. However, the threat of long and short-term environmental impacts to ecological receptors in Lake Jacobs does exist.

C3. What natural resource and environmental effects have occurred or are possible (terrestrial; aquatic organisms; aquifers whether or not used for drinking water purposes)?

Although the upper and lower aquifers are not used for drinking water purposes, they have been adversely impacted by past releases at the facility. Again, no adverse effects have been observed to other environmental receptors. However, adverse impacts to organisms in Lake Jacobs and Elliot Bay are possible. The nature of these potential impacts is unknown.

C4. What are the known or projected ecological effects?

There are no known or projected ecological effects. However, there are potential adverse ecological effects to organisms living in Lake Jacobs. Since no data concerning contaminant loading in Lake Jacobs is available, the nature of these potential effects are unknown.

C5. When is threat likely to materialize (days, weeks, months)?

Since the threat to ecological receptors is only a potential threat at this time, the time frame for the threat to materialize is unknown.

C6. What are the projected long-term effects?

Again, since the effects are potential until conclusive data has been collected, the projected long-term effects cannot be established.

C7. If response is delayed, how will the situation change?

Delaying response to potential environmental impacts may prevent mitigating these potential threats to the environment. However, there is no evidence to conclude that delaying response will result in immediate risk to ecological receptors.

REFERENCES

- PRC Environmental Management, Inc., 1993, Port of Seattle/Burlington Environmental, Inc.
Pier 91 Facility, Seattle, Washington, Interim Final Resource Conservation and
Recovery Act Facility Assessment.
- Tetra Tech, Inc., 1988, Draft Report, RCRA Facility Assessment, Chemical Processors, Inc.
Pier 91, Seattle, Washington.

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

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Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Methylene chloride ug/kg	Acetone ug/kg	Carbon disulfide ug/kg	1,1-DCA ug/kg	cis-1,2-Dichloroethene ug/kg	Chloroform ug/kg	2-Butanone ug/kg
CP-106B	01/25/93	2.0	<2000	32000 B	<2000	<2000	---	<2000	<10000
CP-106B	01/25/93	6.0	<2500	<25000	<2500	<2500	---	<2500	<12500
CP-106B	01/25/93	18.0	420 B	<2500	<250	<250	---	<250	<1250
CP-106B	02/19/93	35.0	160 B	(18) JB	(2.0) J	<6	---	<6	<30
CP-106B	02/19/93	39.0	170 B	(18) JB	<6	<6	---	<6	<30
CP-111	10/10/92	2.0	7.8 B	14 B	<2.7 U	<2.7 U	<2.7 U	<2.7 U	<14 U
CP-111	10/10/92	6.0	<270 U	1300 B	<140 U	<140 U	<140 U	<140 U	1000
CP-112	10/10/92	2.0	8.5 B	6.8 B	<1.1	<1.1	<1.1	<1.1	<11
CP-112	10/10/92	6.0	3.9 B	11 B	<1.3	<1.3	<1.3	<1.3	<6.6
CP-113	10/11/92	2.0	2.4 B	26 B	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<5.2 U
CP-113	10/11/92	6.0	<1500 U	<3700 U	<750 U	<750 U	<750 U	<750 U	<3700 U
CP-114	10/08/92	2.0	2.4 B	<5.1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<5.1 U
CP-114	10/08/92	6.0	1.8 JB	94 B	<1.1 U	<1.1 U	<1.1 U	<1.1 U	5.9
CP-115A	10/08/92	2.0	14 B	<5.2 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<5.2 U
CP-115A	10/08/92	6.0	1400 B	1100 JB	<310 U	<310 U	<310 U	<310 U	<1600 U
CP-115B	02/02/93	18.0	230 B	51 B	<5	<5	---	<5	<25
CP-115B	02/09/93	36.0	103 JB	(28) JB	<5	<5	---	<5	<25
CP-115B	02/12/93	38.0	1200 B	<2500	<250	<250	---	<250	<1250
CP-116	09/23/92	2.0	1900	<740 U	<150 U	<150 U	<150 U	<150 U	<740 U
CP-116	10/05/92	2.0	<260 U	<640 U	<130 U	<130 U	<130 U	<130 U	<640 U
CP-116	10/05/92	6.0	<280 U	<690 U	<140 U	<140 U	<140 U	<140 U	<690 U
CP-117	09/24/92	2.0	4400	<680 U	<140 U	<140 U	<140 U	<140 U	<680 U
CP-117	09/24/92	6.0	5500	640 J	<140 U	150 M	260	<140 U	<710 U
CP-118	10/01/92	2.0	<260 U	<660 U	<130 U	<130 U	<130 U	<130 U	<660 U
CP-118	10/01/92	6.0	<270 U	<680 U	<140 U	<140 U	<140 U	<140 U	<680 U
CP-119	09/28/92	2.0	11000 B	1100	170 M	<160 U	<160 U	<160 U	<780 U
CP-119	09/28/92	6.0	960 M	<760 U	<150 U	170 M	<150 U	<150 U	<760 U

< = Not detected at indicated reporting limit

--- = Not sampled and/or analyzed

All values represent total concentrations unless noted

Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 1B of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	1,1,1-TCA ug/kg	TCE ug/kg	Benzene ug/kg	2-Hexanone ug/kg	PCE ug/kg	Toluene ug/kg	Chlorobenzene ug/kg
CP-106B	01/25/93	2.0	<2000	<2000	<2000	<2000	<2000	6500 B	<2000
CP-106B	01/25/93	6.0	<2500	<2500	<2500	<2500	<2500	(2400) JB	<2500
CP-106B	01/25/93	18.0	<250	<250	<250	<250	<250	<250	<250
CP-106B	02/19/93	35.0	<6	<6	<6	<6	<6	(2.2) JB	<6
CP-106B	02/19/93	39.0	<6	<6	<6	<6	<6	(2.8) JB	<6
CP-111	10/10/92	2.0	<2.7 U	<2.7 U	<2.7 U	<14 U	<1.9 U	<2.7 U	<2.7 U
CP-111	10/10/92	6.0	<140 U	<140 U	<140 U	<680 U	<95 U	<140 U	<140 U
CP-112	10/10/92	2.0	<1.1	<1.1	<1.1	5.6	<0.7	2.5	<1.1
CP-112	10/10/92	6.0	<1.3	<1.3	<1.3	<6.6	<0.9	<1.3	<1.3
CP-113	10/11/92	2.0	<1.0 U	<1.0 U	<1.0 U	<6.2 U	<0.7 U	<1.0 U	<1.0 U
CP-113	10/11/92	6.0	<750 U	<750 U	<750 U	<3700 U	<520 U	<750 U	<750 U
CP-114	10/08/92	2.0	<1.0 U	<1.0 U	<1.0 U	<6.1 U	<0.7 U	<1.0 U	<1.0 U
CP-114	10/08/92	6.0	<1.1 U	<1.1 U	<1.1 U	<5.4 U	<0.8 U	1.3	<1.1 U
CP-115A	10/08/92	2.0	<1.0 U	<1.0 U	<1.0 U	<5.2 U	<0.7 U	<1.0 U	<1.0 U
CP-115A	10/08/92	6.0	<310 U	<310 U	<310 U	<1600 U	<220 U	<310 U	<310 U
CP-115B	02/02/93	18.0	<5	<5	<5	<5	<5	(4.9) JB	<5
CP-115B	02/09/93	36.0	<5	<5	<5	<5	<5	(4.6) JB	<5
CP-115B	02/12/93	38.0	<250	<250	<250	<250	<250	(26) JB	<250
CP-116	09/23/92	2.0	<150 U	<150 U	<150 U	<740 U	<100 U	440	<150 U
CP-116	10/05/92	2.0	<130 U	<130 U	<130 U	<640 U	<130 U	91 M	<130 U
CP-116	10/05/92	6.0	<140 U	<140 U	<140 U	<690 U	<140 U	96 M	<140 U
CP-117	09/24/92	2.0	<140 U	<140 U	<140 U	<680 U	<95 U	24000	<140 U
CP-117	09/24/92	6.0	300	<140 U	160	<710 U	800	65000 K	<140 U
CP-118	10/01/92	2.0	<130 U	<130 U	<130 U	<660 U	<130 U	130 M	<130 U
CP-118	10/01/92	6.0	<140 U	<140 U	<140 U	<680 U	<140 U	<140 U	<140 U
CP-119	09/28/92	2.0	<160 U	<160 U	320	<780 U	<110 U	2500	<160 U
CP-119	09/28/92	6.0	<150 U	<150 U	400	<760 U	170 M	5000	<150 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 1C of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Ethylbenzene ug/kg	Total xylenes ug/kg	1,1,2-Trichloro trifluoroethane	
					ug/kg	ug/kg
CP-106B	01/25/93	2.0	25000	100000	---	
CP-106B	01/25/93	6.0	22000	80000	---	
CP-106B	01/25/93	18.0	(77) J	300	---	
CP-106B	02/19/93	35.0	<6	<6	---	
CP-106B	02/19/93	39.0	<6	<6	---	
CP-111	10/10/92	2.0	<2.7 U	4.6 J	<5.4 U	
CP-111	10/10/92	6.0	<140 U	<270 U	<270 U	
CP-112	10/10/92	2.0	<1.1	<2.1	<2.1	
CP-112	10/10/92	6.0	<1.3	<2.6	<2.6	
CP-113	10/11/92	2.0	<1.0 U	<2.1 U	<2.1 U	
CP-113	10/11/92	6.0	<750 U	<1500 U	<1500 U	
CP-114	10/08/92	2.0	<1.0 U	<2.0 U	<2.0 U	
CP-114	10/08/92	6.0	<1.1 U	1.7 J	<2.2 U	
CP-115A	10/08/92	2.0	<1.0 U	<2.1 U	<2.1 U	
CP-115A	10/08/92	6.0	<310 U	<630 U	<630 U	
CP-115B	02/02/93	18.0	5.3	(4.9) J	---	
CP-115B	02/09/93	36.0	<5	<5	---	
CP-115B	02/12/93	38.0	<250	<250	---	
CP-116	09/23/92	2.0	1600	11000	<290 U	
CP-116	10/05/92	2.0	320	1900	<260 U	
CP-116	10/05/92	6.0	660	2300	<280 U	
CP-117	09/24/92	2.0	13000	29000	<270 U	
CP-117	09/24/92	6.0	290000 K	440000 K	740	
CP-118	10/01/92	2.0	1900	6700	<260 U	
CP-118	10/01/92	6.0	<140 U	520 M	<270 U	
CP-119	09/28/92	2.0	5400	24000	<310 U	
CP-119	09/28/92	6.0	3700	14000	770	

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 2A of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Methylene chloride ug/kg	Acetone ug/kg	Carbon disulfide ug/kg	1,1-DCA ug/kg	cis-1,2-Dichloroethene ug/kg	Chloroform ug/kg	2-Butanone ug/kg
CP-121	10/07/92	2.0	5.1 B	12 B	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<5.5 U
CP-121	10/07/92	6.0	750 B	1200 JB	<290 U	<290 U	<290 U	<290 U	<1500 U
CP-122A	10/08/92	2.0	4.9 B	<5.3 B	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<5.3 U
CP-122A	10/08/92	6.0	2.4 B	26 B	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<5.7 U
CP-122A	10/09/92	14.0	4.1 B	17 B	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<5.8 U
CP-122B	01/19/93	2.0	450 B	(110) J	<250	<250	---	<250	<1250
CP-122B	01/19/93	6.0	300 B	(330) J	<250	<250	---	<250	<1250
CP-122B	01/19/93	22.0	380 B	(300) J	<250	<250	---	<250	<1250
CP-122B	02/24/93	32.0	110 B	(45) JB	<6.0	<6.0	---	(0.91) J	<3.0
CP-122B	02/24/93	39.0	150 B	57 B	(0.89) J	<5.0	---	(0.87) J	<25.0
CP-122C	01/18/93	2.0	2300 B	<2500	<250	<250	---	<250	<1250
CP-122C	01/18/93	6.0	(170) JB	(150) J	<250	<250	---	<250	<1250
HA-03	09/22/92	4.5	<430 U	<1100 U	<220 U	<220 U	<220 U	<220 U	<1100 U
HA-03	09/22/92	6.0	1700 B	<1500 U	<290 U	<290 U	<290 U	<290 U	<1500 U
HA-04	09/28/92	1.5	970 B	<740 U	<150 U	260	<150 U	<150 U	<2800 U
HA-04	09/28/92	3.0	370 B	<690 U	<140 U	350	<140 U	<140 U	<2900 U
HA-05	09/22/92	4.5	1100	<1400 U	<280 U	<280 U	<280 U	<280 U	<1400 U
HA-05	09/22/92	6.0	750 B	<1500 U	<290 U	<290 U	<290 U	<290 U	<1500 U
HA-06	09/21/92	4.5	<530 U	<1300 U	<260 U	<260 U	<260 U	<260 U	<1300 U
HA-06	09/21/92	6.0	<630 U	<1600 U	<310 U	<310 U	<310 U	<310 U	<1600 U
HA-07	09/16/92	1.5	140 B	140 B	1.8 M	130	12	51	63
HA-07	09/16/92	3.0	<1100 U	2800 B	<540 U	1700	<540 U	<540 U	4000 B
HA-08	09/18/92	3.0	<260 U	<660 U	<130 U	<130 U	<130 U	<130 U	<1300 U
HA-08	09/18/92	4.5	<130 U	370	<70 U	<70 U	<70 U	<70 U	<700 U
HA-09	09/29/92	1.5	380 B	<670 U	<130 U	<130 U	<130 U	<130 U	<2800 U
HA-10	09/18/92	1.5	1100	<1300	<260	<260	<260	<260	<1300
HA-10	09/29/92	4.5	<320 U	<800 U	<160 U	<160 U	<160 U	<160 U	<3400 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 2B of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	1,1,1-TCA ug/kg	TCE ug/kg	Benzene ug/kg	2-Hexanone ug/kg	PCE ug/kg	Toluene ug/kg	Chlorobenzene ug/kg
CP-121	10/07/92	2.0	<1.1 U	<1.1 U	<1.1 U	<5.5 U	<0.8 U	<1.1 U	<1.1 U
CP-121	10/07/92	6.0	<290 U	<290 U	<290 U	<1500 U	<210 U	360	<290 U
CP-122A	10/08/92	2.0	<1.1 U	<1.1 U	<1.1 U	<5.3 U	<0.8 U	<1.1 U	<1.1 U
CP-122A	10/08/92	6.0	<1.1 U	<1.1 U	<1.1 U	<5.7 U	<0.8 U	<1.1 U	<1.1 U
CP-122A	10/09/92	14.0	<1.2 U	<1.2 U	<1.2 U	<5.8 U	<0.8 U	<1.2 U	<1.2 U
CP-122B	01/19/93	2.0	<250	<250	<250	<250	<250	<250	<250
CP-122B	01/19/93	6.0	<250	<250	<250	<250	<250	<250	<250
CP-122B	01/19/93	22.0	<250	<250	<250	<250	<250	<250	<250
CP-122B	02/24/93	32.0	<6.0	<6.0	<6.0	<6.0	<6.0	8.1 B	<6.0
CP-122B	02/24/93	39.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.9 B	<5.0
CP-122C	01/18/93	2.0	<250	<250	<250	<250	<250	(57) JB	<250
CP-122C	01/18/93	6.0	<250	<250	<250	<250	<250	<250	<250
HA-03	09/22/92	4.5	<220 U	<220 U	<220 U	<1100 U	<150 U	290 B	<220 U
HA-03	09/22/92	6.0	<290 U	<290 U	<290 U	<1500 U	<210 U	330 B	<290 U
HA-04	09/28/92	1.5	<150 U	<150 U	310	<740 U	580	9700	<300 U
HA-04	09/28/92	3.0	<140 U	<140 U	320	<690 U	740	9500	<280 U
HA-05	09/22/92	4.5	<280 U	<280 U	300	<1400 U	430	820 B	<280 U
HA-05	09/22/92	6.0	<290 U	<290 U	<290 U	<1500 U	<210 U	2700 B	<290 U
HA-06	09/21/92	4.5	<260 U	<260 U	<260 U	<1300 U	<180 U	410 B	<260 U
HA-06	09/21/92	6.0	<310 U	<310 U	<310 U	<1600 U	<220 U	310 U	<310 U
HA-07	09/16/92	1.5	54	26	73	<61 U	190 K	0 K	<0.8 U
HA-07	09/16/92	3.0	410 M	<540 U	910	<2700 U	4000	140000 KB	<540 U
HA-08	09/18/92	3.0	<130 U	<130 U	<130 U	<660 U	<92 U	<130 U	<130 U
HA-08	09/18/92	4.5	<70 U	<70 U	<70 U	<330 U	<46 U	82	<70 U
HA-09	09/29/92	1.5	<130 U	<130 U	92 M	<670 U	<130 U	630	<130 U
HA-10	09/18/92	1.5	<260	<260	270	<1300	<180	2100	290 M
HA-10	09/29/92	4.5	<160 U	<160 U	160	<800 U	<160 U	2500	<480 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 2C of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Ethylbenzene ug/kg	Total xylenes ug/kg	1,1,2-Trichloro trifluoroethane
					ug/kg
CP-121	10/07/92	2.0	<1.1 U	<2.2 U	<2.2 U
CP-121	10/07/92	6.0	<290 U	270 M	<590 U
CP-122A	10/08/92	2.0	<1.1 U	<2.1 U	<2.1 U
CP-122A	10/08/92	6.0	<1.1 U	<2.3 U	<2.3 U
CP-122A	10/09/92	14.0	<1.2 U	<2.3 U	<2.3 U
CP-122B	01/19/93	2.0	<250	<250	---
CP-122B	01/19/93	6.0	<250	<250	---
CP-122B	01/19/93	22.0	<250	<250	---
CP-122B	02/24/93	32.0	(3.7) J	(4.4) J	---
CP-122B	02/24/93	39.0	(4.1) J	7.0	---
CP-122C	01/18/93	2.0	<250	<250	---
CP-122C	01/18/93	6.0	<250	<250	---
HA-03	09/22/92	4.5	16000	25000	<430 U
HA-03	09/22/92	6.0	1200	5700	<590 U
HA-04	09/28/92	1.5	3100	22000	1100
HA-04	09/28/92	3.0	2900	20000	950
HA-05	09/22/92	4.5	530000 K	630000 K	<560 U
HA-05	09/22/92	6.0	320000 K	440000 K	<590 U
HA-06	09/21/92	4.5	3500	13000	<530 U
HA-06	09/21/92	6.0	5200	8700	<630 U
HA-07	09/16/92	1.5	880 K	3900 K	190 K
HA-07	09/16/92	3.0	17000	150000 B	6100
HA-08	09/18/92	3.0	940	4200	<260 U
HA-08	09/18/92	4.5	170	1700	<130 U
HA-09	09/29/92	1.5	520	2600	<270 U
HA-10	09/18/92	1.5	1200	6400	<530
HA-10	09/29/92	4.5	2000	8400	<320 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 3A of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Methylene chloride ug/kg	Acetone ug/kg	Carbon disulfide ug/kg	1,1-DCA ug/kg	cis-1,2-Dichloroethene ug/kg	Chloroform ug/kg	2-Butanone ug/kg
HA-10	09/29/92	5.0	<260 U	<650 U	<130 U	<130 U	<130 U	<130 U	<2500 U
HA-11	09/17/92	1.5	2300 B	<3500 U	3500	<690 U	<690 U	<690 U	<3500 U
HA-11	09/17/92	6.0	910 B	<1400 U	<280 U	<280 U	<280 U	<280 U	<1400 U
HA-12	09/17/92	5.0	<670 U	<1700 U	<330 U	<330 U	<330 U	<330 U	<1700 U
HA-12	09/17/92	6.0	<280 U	<690 U	<690 U	<140 U	<140 U	<140 U	<690 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 3B of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	1,1,1-TCA ug/kg	TCE ug/kg	Benzene ug/kg	2-Hexanone ug/kg	PCE ug/kg	Toluene ug/kg	Chlorobenzene ug/kg
HA-10	09/29/92	5.0	<130 U	<130 U	<130 U	<650 U	<130 U	1300	<260 U
HA-11	09/17/92	1.5	<690 U	<690 U	380 J	<3500 U	400 J	6200 B	<690 U
HA-11	09/17/92	6.0	<280 U	<280 U	<280 U	<1400 U	<190 U	300 B	<280 U
HA-12	09/17/92	5.0	<330 U	<330 U	<330 U	<1700 U	<230 U	4600	<330 U
HA-12	09/17/92	6.0	<140 U	<140 U	<140 U	<690 U	<97 U	780	<140 U

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Data qualifiers presented in Appendix A

TABLE 1

VOCs Detected in Soil
USEPA Method 8240

Page: 3C of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Ethylbenzene ug/kg	1,1,2-Trichloro trifluoroethane	
				Total xylenes ug/kg	ug/kg
HA-10	09/29/92	5.0	1200	5400	<260 U
HA-11	09/17/92	1.5	4100	29000 B	<1400 U
HA-11	09/17/92	6.0	400	1600 B	<560 U
HA-12	09/17/92	5.0	<330 U	32000	<670 U
HA-12	09/17/92	6.0	3600	19000	<280 U

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 Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 1A of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzyl alcohol ug/kg	1,2,4-Trichloro benzene ug/kg	Naphthalene ug/kg	4-Chloro-3- methylphenol ug/kg	2-Methyl naphthalene ug/kg	Acenaphthylene ug/kg	Acenaphthene ug/kg
CP-106B	01/25/93	2.0	<74000	<37000	(29000) J	<74000	44000	<37000	(15000) J
CP-106B	01/25/93	6.0	<16000	<7900	9000	<16000	15000	<7900	(5400) J
CP-106B	01/25/93	18.0	<1700	<870	<870	<1700	<870	<870	<870
CP-106B	02/19/93	35.0	<770	<390	<390	<770	<390	<390	<390
CP-106B	02/19/93	39.0	<800	<400	<400	<800	<400	<400	<400
CP-111	10/10/92	2.0	<5800	<2900	32000	<5800	20000	(900) J	(2600) J
CP-111	10/10/92	6.0	<5700	<2800	<2800	<5700	<2800	<2800	(1500) J
CP-112	10/10/92	2.0	<5700	<2800	<2800	<5700	<2800	(620) J	<2800
CP-112	10/10/92	6.0	<2100	<1000	<1000	<2100	<1000	<1000	<1000
CP-113	10/11/92	2.0	<1400	<690	<690	<1400	<690	<690	<690
CP-113	10/11/92	6.0	<1900	<940	<940	<1900	<940	<940	<940
CP-114	10/08/92	2.0	<1400	<680	<680	<1400	<680	<680	<680
CP-114	10/08/92	6.0	<1600	<780	<780	<1600	<780	<780	<780
CP-115A	10/08/92	2.0	<1400	<710	<710	<1400	<710	<710	<710
CP-115A	10/08/92	6.0	<8000	<4000	<4000	<8000	<4000	<4000	<4000
CP-115B	02/02/93	18.0	<860	<430	<430	<860	<430	<430	<430
CP-115B	02/09/93	36.0	<820	<410	<410	<820	<410	<410	<410
CP-115B	02/12/93	38.0	<810	<400	<400	<810	<400	<400	<400
CP-116	09/23/92	2.0	<20000	<10000	12000	<20000	58000	<10000	(2300) J
CP-116	10/05/92	2.0	<20000	<10000	(1600) J	<20000	(4700) J	<10000	(1300) J
CP-116	10/05/92	6.0	<35000	<17000	<17000	<35000	(4700) J	<17000	<17000
CP-117	09/24/92	2.0	<16000	<8000	(1800) J	<16000	14000	<8000	(1300) J
CP-117	09/24/92	6.0	<20000	<10000	(5400) J	<20000	36000	<10000	(1700) J
CP-118	10/01/92	2.0	<22000	<11000	(4400) J	<22000	72000	<11000	(4300) J
CP-118	10/01/92	6.0	<22000	<11000	<11000	<22000	38000	<11000	(2300) J
CP-119	09/28/92	2.0	<20000	<10000	20000	<20000	110000	<10000	(5300) J
CP-119	09/28/92	6.0	<24000	<12000	(8600) J	<24000	52000	<12000	(1000) J

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 1B of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Dibenzofuran ug/kg	Fluorene ug/kg	N-Nitroso diphenylamine ug/kg	Phenanthrene ug/kg	Anthracene ug/kg	Di-n-butyl phthalate ug/kg	Fluoranthene ug/kg
CP-106B	01/25/93	2.0	(8400) J	(14000) J	<37000	41000	<37000	<37000	(14000) J
CP-106B	01/25/93	6.0	(3300) J	(5400) J	<7900	16000	(2000) J	<7900	(5600) J
CP-106B	01/25/93	18.0	<870	<870	<870	(120) J	<870	(330) JB	<870
CP-106B	02/19/93	35.0	<390	<390	<390	<390	<390	2400 JB	<390
CP-106B	02/19/93	39.0	<400	<400	<400	<400	<400	2800 JB	<400
CP-111	10/10/92	2.0	6400	17000	<2900	57000	14000	(2000) JB	61000
CP-111	10/10/92	6.0	<2800	(1600) J	<2800	3600	(750) J	<2800	(2700) J
CP-112	10/10/92	2.0	<2800	<2800	<2800	(2200) J	(500) J	5900 B	3700
CP-112	10/10/92	6.0	<1000	<1000	<1000	<1000	<1000	<1000	<1000
CP-113	10/11/92	2.0	<690	<690	<690	<690	<690	<690	<690
CP-113	10/11/92	6.0	<940	<940	<940	<940	<940	2800 B	<940
CP-114	10/08/92	2.0	<680	<680	<680	<680	<680	4500 B	<680
CP-114	10/08/92	6.0	<780	<780	<780	<780	<780	2300 B	<780
CP-115A	10/08/92	2.0	<710	<710	<710	<710	<710	1400 B	<710
CP-115A	10/08/92	6.0	<4000	<4000	<4000	<4000	<4000	<4000	<4000
CP-115B	02/02/93	18.0	<430	<430	<430	<430	<430	(150) JB	<430
CP-115B	02/09/93	36.0	<410	<410	<410	<410	<410	(290) JB	<410
CP-115B	02/12/93	38.0	<400	<400	<400	<400	<400	3400 JB	<400
CP-116	09/23/92	2.0	(2600) J	(6000) J	<10000	16000	(2800) J	31000 JB	(2500) J
CP-116	10/05/92	2.0	(800) J	<10000	<10000	(2200) J	(1000) J	(4000) JB	(1000) J
CP-116	10/05/92	6.0	<17000	<17000	<17000	(4800) J	<17000	50000 B	<17000
CP-117	09/24/92	2.0	(1300) J	(3600) J	<8000	11000	(1500) J	27000 B	(2200) J
CP-117	09/24/92	6.0	(1300) J	(5800) J	<10000	11000	(1200) J	26000	(1500) J
CP-118	10/01/92	2.0	(3700) J	(7200) J	<11000	11000	(2300) J	(3800) JB	(1000) J
CP-118	10/01/92	6.0	(2400) J	(7600) J	<11000	(9800) J	<11000	(4200) JB	<11000
CP-119	09/28/92	2.0	(3600) J	14900	<10000	34000	(4300) J	16000 B	(3100) J
CP-119	09/28/92	6.0	(1700) J	(5000) J	<12000	(7500) J	(1300) J	(8900) JB	<12000

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 1C of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Pyrene ug/kg	Butyl benzyl phthalate ug/kg	Benzo(a) anthracene ug/kg	Chrysene ug/kg	bis(2-Ethyl hexyl)phthalate ug/kg	Di-n-octyl phthalate ug/kg	Benzo(b) fluoranthene ug/kg
CP-106B	01/25/93	2.0	(16000) J	<37000	<37000	<37000	<37000	<37000	<37000
CP-106B	01/25/93	6.0	(6100) J	<7900	<7900	(2100) J	<7900	<7900	(1400) J
CP-106B	01/25/93	18.0	<870	<870	<870	<870	(180) JB	<870	<870
CP-106B	02/19/93	35.0	<390	<390	<390	<390	<390	<390	<390
CP-106B	02/19/93	39.0	<400	<400	<400	<400	<400	<400	<400
CP-111	10/10/92	2.0	78000	<2900	50000	28000	<2900	<2900	58000
CP-111	10/10/92	6.0	3000	<2800	(890) J	<2800	<2800	<2800	(1200) J
CP-112	10/10/92	2.0	6600	(1900) JB	3000	3900	<2800	<2800	5600
CP-112	10/10/92	6.0	<1000	<1000	<1000	<1000	<1000	<1000	<1000
CP-113	10/11/92	2.0	<690	<690	<690	<690	<690	<690	<690
CP-113	10/11/92	6.0	<940	<940	<940	<940	<940	<940	<940
CP-114	10/08/92	2.0	<680	<680	<680	<680	<680	<680	<680
CP-114	10/08/92	6.0	<780	<780	<780	<780	<780	<780	<780
CP-115A	10/08/92	2.0	<710	<710	<710	<710	<710	<710	<710
CP-115A	10/08/92	6.0	<4000	<4000	<4000	<4000	<4000	<4000	<4000
CP-115B	02/02/93	18.0	<430	<430	<430	<430	<430	<430	<430
CP-115B	02/09/93	36.0	<410	<410	<410	<410	(68) JB	<410	<410
CP-115B	02/12/93	38.0	<400	(56) J	<400	<400	<400	<400	<400
CP-116	09/23/92	2.0	(4500) J	(1600) J	(1300) J	(2300) J	(9000) JB	<10000	<10000
CP-116	10/05/92	2.0	(3000) J	(2800) J	<10000	(2800) J	(4000) JB	<10000	<10000
CP-116	10/05/92	6.0	<17000	<17000	<17000	<17000	(4400) JB	<17000	<17000
CP-117	09/24/92	2.0	(5300) J	<8000	<8000	(2400) J	25000 B	(4500) J	<8000
CP-117	09/24/92	6.0	(3000) J	<10000	<10000	<10000	13000 B	<10000	<10000
CP-118	10/01/92	2.0	(3800) J	(3100) J	(3600) J	(3300) J	(3900) JB	<11000	<11000
CP-118	10/01/92	6.0	(3000) J	(3000) J	<11000	<11000	(2800) JB	<11000	<11000
CP-119	09/28/92	2.0	11000	<10000	(2200) J	(4600) J	130000 B	<10000	<10000
CP-119	09/28/92	6.0	<12000	<12000	<12000	<12000	(3800) JB	<12000	<12000

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TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 1D of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzo(k)fluoranthene ug/kg	Benzo(a)pyrene ug/kg	Indeno(1,2,3-cd)pyrene ug/kg	Dibenz(a,h)anthracene ug/kg	Benzo(ghi)perylene ug/kg
CP-106B	01/25/93	2.0	<37000	<37000	<37000	<37000	<37000
CP-106B	01/25/93	6.0	(1600) J	<7900	<7900	<7900	<7900
CP-106B	01/25/93	18.0	<870	<870	<870	<870	<870
CP-106B	02/19/93	35.0	<390	<390	<390	<390	<390
CP-106B	02/19/93	39.0	<400	<400	<400	<400	<400
CP-111	10/10/92	2.0	<2900	29000	22000	<2900	20000
CP-111	10/10/92	6.0	<2800	(730) J	<2800	<2800	(570) J
CP-112	10/10/92	2.0	<2800	3500	3000	(700) J	3200
CP-112	10/10/92	6.0	<1000	<1000	<1000	<1000	(110) J
CP-113	10/11/92	2.0	<690	<690	<690	<690	<690
CP-113	10/11/92	6.0	<940	<940	<940	<940	<940
CP-114	10/08/92	2.0	<680	<680	<680	<680	<680
CP-114	10/08/92	6.0	<780	<780	<780	<780	<780
CP-115A	10/08/92	2.0	<710	<710	<710	<710	<710
CP-115A	10/08/92	6.0	<4000	<4000	<4000	<4000	<4000
CP-115B	02/02/93	18.0	<430	<430	<430	<430	<430
CP-115B	02/09/93	36.0	<410	<410	<410	<410	<410
CP-115B	02/12/93	38.0	<400	<400	<400	<400	<400
CP-116	09/23/92	2.0	<10000	(1000) J	<10000	<10000	<10000
CP-116	10/05/92	2.0	<10000	<10000	<10000	<10000	<10000
CP-116	10/05/92	6.0	<17000	<17000	<17000	<17000	<17000
CP-117	09/24/92	2.0	<8000	<8000	<8000	<8000	<8000
CP-117	09/24/92	6.0	<10000	<10000	<10000	<10000	<10000
CP-118	10/01/92	2.0	<11000	<11000	<11000	<11000	<11000
CP-118	10/01/92	6.0	<11000	<11000	<11000	<11000	<11000
CP-119	09/28/92	2.0	<10000	<10000	<10000	<10000	<10000
CP-119	09/28/92	6.0	<12000	<12000	<12000	<12000	<12000

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 2A of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzyl alcohol ug/kg	1,2,4-Trichloro benzene ug/kg	Naphthalene ug/kg	4-Chloro-3- methylphenol ug/kg	2-Methyl naphthalene ug/kg	Acenaphthylene ug/kg	Acenaphthene ug/kg
CP-121	10/07/92	2.0	< 1400	< 690	< 690	< 1400	< 690	< 690	< 690
CP-121	10/07/92	6.0	< 9400	< 4700	< 4700	< 9400	< 4700	< 4700	< 4700
CP-122A	10/08/92	2.0	< 1400	< 720	< 720	< 1400	< 720	< 720	< 720
CP-122A	10/08/92	6.0	< 1600	< 790	< 790	< 1600	< 790	< 790	< 790
CP-122A	10/09/92	14.0	< 1700	< 830	< 830	< 1700	< 830	< 830	< 830
CP-122B	01/19/93	2.0	< 7800	< 3900	< 3900	< 7800	< 3900	< 3900	< 3900
CP-122B	01/19/93	6.0	< 1600	< 790	< 790	< 1600	< 790	< 790	< 790
CP-122B	01/19/93	22.0	< 1600	< 810	< 810	< 1600	< 810	< 810	< 810
CP-122B	02/24/93	32.0	< 810	< 410	< 410	< 810	< 410	< 410	< 410
CP-122B	02/24/93	39.0	< 780	< 390	< 390	< 780	< 390	< 390	< 390
CP-122C	01/18/93	2.0	< 32000	< 16000	< 16000	< 32000	< 16000	< 16000	< 16000
CP-122C	01/18/93	6.0	< 3200	< 1600	< 1600	< 3200	< 1600	< 1600	< 1600
HA-03	09/22/92	4.5	< 8000	(1600) J	(2700) J	< 8000	< 4000	< 4000	< 4000
HA-03	09/22/92	6.0	< 70000	(33000) J	36000	< 70000	43000	< 35000	(5200) J
HA-04	09/28/92	1.5	< 20000	< 10000	(6300) J	< 20000	34000	< 10000	(1900) J
HA-04	09/28/92	3.0	(1500) J	< 14000	(7400) J	(8900) J	39000	< 14000	(3300) J
HA-05	09/22/92	4.5	< 71000	< 35000	(8400) J	< 71000	(23000) J	< 35000	< 35000
HA-05	09/22/92	6.0	< 16000	< 8000	(2300) J	< 16000	(5700) J	< 8000	(940) J
HA-06	09/21/92	4.5	< 27000	< 14000	(12000) J	< 27000	31000	< 14000	(1500) J
HA-06	09/21/92	6.0	< 29000	< 15000	(7800) J	< 29000	21000	< 15000	< 15000
HA-07	09/16/92	1.5	< 30000	< 15000	(8600) J	< 30000	25000	< 15000	(3700) J
HA-07	09/16/92	3.0	< 29000	< 14000	16000	< 29000	44000	< 14000	(6100) J
HA-08	09/18/92	3.0	< 14000	< 7100	(6000) J	< 14000	29000	< 7100	(2100) J
HA-08	09/18/92	4.5	< 14000	< 6900	(5900) J	< 14000	22000	< 6900	(1200) J
HA-09	09/29/92	1.5	< 21000	< 11000	(1600) J	< 21000	11000	(4400) J	< 11000
HA-10	09/18/92	1.5	< 57000	< 28000	(9500) J	< 57000	< 28000	< 28000	< 28000
HA-10	09/29/92	4.5	< 16000	< 8000	(7000) J	< 16000	34000	< 8000	(2400) J

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 2B of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Dibenzofuran ug/kg	Fluorene ug/kg	N-Nitroso diphenylamine ug/kg	Phenanthrene ug/kg	Anthracene ug/kg	Di-n-butyl phthalate ug/kg	Fluoranthene ug/kg
CP-121	10/07/92	2.0	<690	<690	<690	<690	<690	(120) JB	<690
CP-121	10/07/92	6.0	<4700	<4700	<4700	<4700	<4700	25000 B	<4700
CP-122A	10/08/92	2.0	<720	<720	<720	<720	<720	(170) JB	<720
CP-122A	10/08/92	6.0	<790	<790	<790	<790	<790	2300 B	<790
CP-122A	10/09/92	14.0	<830	<830	<830	(150) J	<830	<830	<830
CP-122B	01/19/93	2.0	<3900	<3900	<3900	<3900	<3900	<3900	<3900
CP-122B	01/19/93	6.0	<790	<790	<790	<790	<790	<790 B	<790
CP-122B	01/19/93	22.0	<810	<810	<810	(140) J	<810	(280) JB	<810
CP-122B	02/24/93	32.0	<410	<410	<410	<410	<410	(260) JB	<410
CP-122B	02/24/93	39.0	<390	<390	<390	<390	<390	(260) JB	<390
CP-122C	01/18/93	2.0	<16000	<16000	<16000	<16000	<16000	(4100) JB	<16000
CP-122C	01/18/93	6.0	<1600	<1600	<1600	<1600	<1600	4000 B	<1600
HA-03	09/22/92	4.5	<4000	(750) J	<4000	(1300) J	<4000	<4000	<4000
HA-03	09/22/92	6.0	<35000	(10000) J	<35000	(32000) J	<35000	<35000	<35000
HA-04	09/28/92	1.5	(1800) J	(4900) J	<10000	15000	(2600) J	81000 B	(2100) J
HA-04	09/28/92	3.0	(2700) J	(7100) J	(4100) J	20000	(4100) J	110000 B	(3600) J
HA-05	09/22/92	4.5	<35000	(4500) J	<35000	(3500) J	<35000	<35000	<35000
HA-05	09/22/92	6.0	<8000	(1300) J	<8000	(2300) J	<8000	<8000	<8000
HA-06	09/21/92	4.5	<14000	(3200) J	<14000	(5900) J	<14000	<14000	<14000
HA-06	09/21/92	6.0	<15000	<15000	<15000	(4600) J	<15000	<15000	<15000
HA-07	09/16/92	1.5	<15000	(4600) J	<15000	17000	<15000	<15000	<15000
HA-07	09/16/92	3.0	<14000	(8600) J	<14000	32000	<14000	<14000	(6300) J
HA-08	09/18/92	3.0	<7100	(3600) J	<7100	14000	<7100	<7100	<7100
HA-08	09/18/92	4.5	<6900	(3300) J	<6900	12000	<6900	<6900	<6900
HA-09	09/29/92	1.5	(2000) J	(8000) J	<11000	22000	(6000) J	16000	(4000) J
HA-10	09/18/92	1.5	<28000	<28000	<28000	(4800) J	<28000	<28000	<28000
HA-10	09/29/92	4.5	(1800) J	(5200) J	<8000	13000	(2600) J	12000	(1000) J

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 2C of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Pyrene ug/kg	Butyl benzyl phthalate ug/kg	Benzo(a) anthracene ug/kg	Chrysene ug/kg	bis(2-Ethyl hexyl)phthalate ug/kg	Di-n-octyl phthalate ug/kg	Benzo(b) fluoranthene ug/kg
CP-121	10/07/92	2.0	<690	<690	<690	<690	<690	<690	<690
CP-121	10/07/92	6.0	<4700	<4700	<4700	<4700	<4700	<4700	<4700
CP-122A	10/08/92	2.0	<720	<720	<720	<720	<720	<720	<720
CP-122A	10/08/92	6.0	<790	<790	<790	<790	<790	<790	<790
CP-122A	10/09/92	14.0	<830	<830	<830	<830	<830	<830	<830
CP-122B	01/19/93	2.0	<3900	<3900	<3900	<3900	<3900	<3900	<3900
CP-122B	01/19/93	6.0	<790	<790	<790	<790	(200) JB	<790	<790
CP-122B	01/19/93	22.0	<810	<810	<810	<810	(150) JB	<810	<810
CP-122B	02/24/93	32.0	<410	<410	<410	<410	<410	<410	<410
CP-122B	02/24/93	39.0	<390	<390	<390	<390	<390	<390	<390
CP-122C	01/18/93	2.0	<16000	<16000	<16000	<16000	<16000	<16000	<16000
CP-122C	01/18/93	6.0	<1600	<1600	<1600	<1600	<1600	<1600	<1600
HA-03	09/22/92	4.5	<4000	<4000	<4000	<4000	<4000	<4000	<4000
HA-03	09/22/92	6.0	(16000) J	<35000	<35000	<35000	<35000	<35000	<35000
HA-04	09/28/92	1.5	(4900) J	(1300) J	(1700) J	(2500) J	(9500) JB	<10000	<10000
HA-04	09/28/92	3.0	(9000) J	(1800) J	(3500) J	(6000) J	20000 B	<14000	<14000
HA-05	09/22/92	4.5	(5200) J	<35000	<35000	<35000	<35000	<35000	<35000
HA-05	09/22/92	6.0	(880) J	<8000	<8000	<8000	<8000	<8000	<8000
HA-06	09/21/92	4.5	<14000	<14000	<14000	<14000	<14000	<14000	<14000
HA-06	09/21/92	6.0	<15000	<15000	<15000	<15000	<15000	<15000	<15000
HA-07	09/16/92	1.5	(7800) J	<15000	<15000	<15000	<15000	<15000	<15000
HA-07	09/16/92	3.0	(11000) J	<14000	<14000	<14000	<14000	<14000	<14000
HA-08	09/18/92	3.0	(4000) J	<7100	<7100	(2100) J	<7100	<7100	<7100
HA-08	09/18/92	4.5	(3000) J	<6900	<6900	(3800) J	<6900	<6900	<6900
HA-09	09/29/92	1.5	27000	(8000) J	<11000	18000	(10000) JB	<11000	(3200) J
HA-10	09/18/92	1.5	(4200) J	<28000	<28000	<28000	<28000	<28000	<28000
HA-10	09/29/92	4.5	(3600) J	<8000	(2800) J	(3000) J	(2000) JB	<8000	<8000

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TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 2D of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzo(k)fluoranthene ug/kg	Benzo(a)pyrene ug/kg	Indeno(1,2,3-cd)pyrene ug/kg	Dibenz(a,h)anthracene ug/kg	Benzo(ghi)perylene ug/kg
CP-121	10/07/92	2.0	<690	<690	<690	<690	<690
CP-121	10/07/92	6.0	<4700	<4700	<4700	<4700	<4700
CP-122A	10/08/92	2.0	<720	<720	---	<720	<720
CP-122A	10/08/92	6.0	<790	<790	---	<790	<790
CP-122A	10/09/92	14.0	<830	<830	---	<830	<830
CP-122B	01/19/93	2.0	<3900	<3900	<3900	<3900	<3900
CP-122B	01/19/93	6.0	<790	<790	<790	<790	<790
CP-122B	01/19/93	22.0	<810	<810	---	<810	<810
CP-122B	02/24/93	32.0	<410	<410	<410	<410	<410
CP-122B	02/24/93	39.0	<390	<390	<390	<390	<390
CP-122C	01/18/93	2.0	<16000	<16000	---	<16000	<16000
CP-122C	01/18/93	6.0	<1600	<1600	---	<1600	<1600
HA-03	09/22/92	4.5	<4000	<4000	<4000	<4000	<4000
HA-03	09/22/92	6.0	<35000	<35000	<35000	<35000	<35000
HA-04	09/28/92	1.5	<10000	<10000	<10000	<10000	<10000
HA-04	09/28/92	3.0	<14000	(1500) J	<14000	<14000	<14000
HA-05	09/22/92	4.5	<35000	<35000	<35000	<35000	<35000
HA-05	09/22/92	6.0	<8000	<8000	<8000	<8000	<8000
HA-06	09/21/92	4.5	<14000	<14000	<14000	<14000	<14000
HA-06	09/21/92	6.0	<15000	<15000	<15000	<15000	<15000
HA-07	09/16/92	1.5	<15000	<15000	<15000	<15000	<15000
HA-07	09/16/92	3.0	<14000	<14000	<14000	<14000	<14000
HA-08	09/18/92	3.0	<7100	<7100	<7100	<7100	<7100000
HA-08	09/18/92	4.5	<6900	<6900	<6900	<6900	<6900
HA-09	09/29/92	1.5	<11000	(5600) J	<11000	<11000	<11000
HA-10	09/18/92	1.5	<28000	<28000	<28000	<28000	<28000
HA-10	09/29/92	4.5	<8000	<8000	<8000	<8000	<8000

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 3A of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzyl alcohol ug/kg	1,2,4-Trichloro benzene ug/kg	Naphthalene ug/kg	4-Chloro-3- methylphenol ug/kg	2-Methyl naphthalene ug/kg	Acenaphthylene ug/kg	Acenaphthene ug/kg
HA-10	09/29/92	5.0	<20000	<10000	(6000) J	<20000	22000	(4400) J	(1800) J
HA-11	09/17/92	1.5	<140000	<72000	(18000) J	<140000	85000 J	<72000	<72000
HA-11	09/17/92	6.0	<14000	<7200	(3300) J	<14000	17000	<7200	(1400) J
HA-12	09/17/92	5.0	<27000	<14000	21000	<27000	70000	<14000	(3000) J
HA-12	09/17/92	6.0	<29000	<15000	17000	<29000	60000	<15000	(3300) J

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 3B of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Dibenzofuran ug/kg	Fluorene ug/kg	N-Nitroso diphenylamine ug/kg	Phenanthrene ug/kg	Anthracene ug/kg	Di-n-butyl phthalate ug/kg	Fluoranthene ug/kg
HA-10	09/29/92	5.0	(1600) J	(4800) J	<10000	12000	(2400) J	13000 B	(800) J
HA-11	09/17/92	1.5	<72000	<72000	<72000	(33000) J	<72000	<72000	<72000
HA-11	09/17/92	6.0	<7200	(2000) J	<7200	(5200) J	<7200	<7200	<7200
HA-12	09/17/92	5.0	<14000	(7600) J	<14000	22000	<14000	<14000	<14000
HA-12	09/17/92	6.0	<15000	(5600) J	<15000	19000	<15000	<15000	<15000

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Data qualifiers presented in Appendix A

TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 3C of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Pyrene ug/kg	Butyl benzyl phthalate ug/kg	Benzo(a) anthracene ug/kg	Chrysene ug/kg	bis(2-Ethyl hexyl)phthalate ug/kg	Di-n-octyl phthalate ug/kg	Benzo(b) fluoranthene ug/kg
HA-10	09/29/92	5.0	(4600) J	<11000	(1300) J	(2800) J	30000 B	<11000	<11000
HA-11	09/17/92	1.5	(21000) J	<72000	<72000	<72000	<72000	<72000	<72000
HA-11	09/17/92	6.0	(2200) J	<7200	<7200	<7200	<7200	<7200	<7200
HA-12	09/17/92	5.0	(4100) J	<14000	<14000	<14000	<14000	<14000	<14000
HA-12	09/17/92	6.0	<15000	<15000	<15000	<15000	<15000	<15000	<15000

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TABLE 2

SVOCs Detected in Soil
USEPA Method 8270

Page: 3D of 3D

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Benzo(k)fluoranthene ug/kg	Benzo(a)pyrene ug/kg	Indeno(1,2,3-cd)pyrene ug/kg	Dibenz(a,h)anthracene ug/kg	Benzo(ghi)perylene ug/kg
HA-10	09/29/92	5.0	<11000	<11000	<11000	<11000	(3000) J
HA-11	09/17/92	1.5	<72000	<72000	<72000	<72000	<72000
HA-11	09/17/92	6.0	<7200	<7200	<7200	<7200	<7200
HA-12	09/17/92	5.0	<14000	<14000	<14000	<14000	<14000
HA-12	09/17/92	6.0	<15000	<15000	<15000	<15000	<15000

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 1A of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Silver mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg
CP-106B	01/25/93	2.0	<0.42	2.1	271	<0.21	0.27	19.8	54.4
CP-106B	01/25/93	6.0	<0.42	1.8	203	<0.21	<0.21	15.1	23.1
CP-106B	01/25/93	18.0	<0.42	2.0	19.3	<0.21	<0.21	20.5	6.2
CP-106B	02/19/93	35.0	<0.040	2.9	13.1	<0.20	<0.20	14.4	4.6
CP-106B	02/19/93	39.0	<0.043	2.8	16.7	<0.21	<0.21	18.6	6.8
CP-111	10/10/92	2.0	<0.38	12.7	42.2	0.46	0.58	20.8	28.2
CP-111	10/10/92	6.0	<0.41	2.7	16.4	0.37	0.27	17.3	9.6
CP-112	10/10/92	2.0	<0.41	4.7	125	0.57	0.46	18.5	33.0
CP-112	10/10/92	6.0	<0.39	1.7	19.5	0.35	0.27	23.2	8.4
CP-113	10/11/92	2.0	<0.39	1.6	11.2	0.22	0.20	11.6	3.7
CP-113	10/11/92	6.0	<0.38	1.8	16.0	0.38	0.30	21.0	8.5
CP-114	10/08/92	2.0	<0.43	2.8	29.9	0.35	0.32	18.6	14.9
CP-114	10/08/92	6.0	<0.44	2.6	35.1	0.38	0.36	17.0	13.7
CP-115A	10/08/92	2.0	<0.40	1.6	103	0.35	0.34	9.9	29.9
CP-115A	10/08/92	6.0	<0.38	2.0	13.3	0.23	<0.19	13.5	5.0
CP-115B	02/02/93	18.0	<0.41	2.3	14.6	<0.20	<0.20	21.2	7.0
CP-115B	02/09/93	36.0	<0.41	2.7	14.2	<0.20	<0.20	19.2	7.9
CP-115B	02/12/93	38.0	<0.41	1.8	11.9	<0.20	<0.20	13.4	6.2
CP-116	09/23/92	2.0	<0.45	1.9	24.6	0.23	0.96	30.6	15.9
CP-116	10/05/92	2.0	<0.44	2.1	16.1	0.23	0.27	18.0	6.7
CP-116	10/05/92	6.0	<0.45	2.2	13.2	<0.22	<0.22	16.3	4.9
CP-117	09/24/92	2.0	0.42	2.1	26.2	<0.21	0.58	41.0	10.3
CP-117	09/24/92	6.0	<0.39	1.5	12.6	<0.20	0.45	28.6	6.7
CP-118	10/01/92	2.0	<0.42	1.0	14.4	<0.21	<0.21	12.4	5.2
CP-118	10/01/92	6.0	<0.38	1.3	22.0	0.37	0.22	26.0	12.9
CP-119	09/28/92	2.0	<0.37	2.2	18.7	0.27	0.25	19.8	10.8
CP-119	09/28/92	6.0	<0.39	1.8	13.0	0.23	0.21	12.2	6.1

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 1B of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Mercury mg/kg	Nickel mg/kg	Lead mg/kg	Zinc mg/kg
CP-106B	01/25/93	2.0	<0.12	23.8	298	94.5
CP-106B	01/25/93	6.0	0.12	12.0	111	54.7
CP-106B	01/25/93	18.0	<0.037	22.9	2.1	20.4
CP-106B	02/19/93	35.0	<0.025	16.7	1.2	16.7
CP-106B	02/19/93	39.0	<0.027	21.8	1.4	21.8
CP-111	10/10/92	2.0	0.037	32.4	27.4	60.4
CP-111	10/10/92	6.0	<0.019	23.3	2.8	25.1
CP-112	10/10/92	2.0	0.043	33.7	36.1	41.2
CP-112	10/10/92	6.0	<0.020	29.2	3.7	22.0
CP-113	10/11/92	2.0	<0.018	13.4	1.4	13.5
CP-113	10/11/92	6.0	<0.019	27.3	4.1	25.8
CP-114	10/08/92	2.0	0.098	22.3	23.3	77.0
CP-114	10/08/92	6.0	0.079	21.5	13.5	62.2
CP-115A	10/08/92	2.0	<0.019	13.6	11.1	31.5
CP-115A	10/08/92	6.0	<0.018	17.7	10.8	15.4
CP-115B	02/02/93	18.0	0.026	23.4	2.4	18.6
CP-115B	02/09/93	36.0	0.029	20.2	1.3	20.4
CP-115B	02/12/93	38.0	<0.024	17.0	1.2	17.8
CP-116	09/23/92	2.0	<0.020	24.9	122	99.2
CP-116	10/05/92	2.0	<0.020	17.9	30.8	40.0
CP-116	10/05/92	6.0	<0.019	18.1	11.6	19.1
CP-117	09/24/92	2.0	<0.020	48.0	81.4	75.5
CP-117	09/24/92	6.0	<0.020	41.6	5.3	21.1
CP-118	10/01/92	2.0	<0.019	18.6	5.6	18.9
CP-118	10/01/92	6.0	<0.019	27.5	32.1	38.9
CP-119	09/28/92	2.0	<0.020	23.4	19.5	20.2
CP-119	09/28/92	6.0	<0.020	17.7	12.8	16.7

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 2A of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Silver mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg
CP-121	10/07/92	2.0	<0.40	2.6	22.2	0.24	0.20	13.9	5.6
CP-121	10/07/92	6.0	<0.44	1.7	17.7	0.39	0.28	19.1	7.8
CP-122A	10/08/92	2.0	<0.44	2.1	36.5	0.35	0.26	20.0	11.1
CP-122A	10/08/92	6.0	<0.41	2.0	31.3	0.39	0.29	26.9	13.3
CP-122A	10/09/92	14.0	<0.40	1.0	31.7	0.36	0.22	21.2	8.8
CP-122B	01/19/93	2.0	<0.43	13.0	85.4	<0.22	<0.22	17.9	31.5
CP-122B	01/19/93	6.0	<0.43	1.8	23.5	<0.21	<0.21	15.3	9.4
CP-122B	01/19/93	22.0	<0.41	1.9	11.9	<0.21	<0.21	15.5	4.5
CP-122B	02/24/93	32.0	<0.42	2.9	14.5	<0.21	<0.21	18.4	7.7
CP-122B	02/24/93	39.0	<0.42	2.4	13.1	<0.21	<0.21	12.8	5.6
CP-122C	01/18/93	2.0	<0.43	3.3	139	<0.21	<0.21	15.2	27.4
CP-122C	01/18/93	6.0	<0.41	2.6	17.2	<0.21	<0.21	12.7	7.3
HA-03	09/22/92	4.5	<0.42	1.5	12.5	0.23	<0.21	14.2	4.5
HA-03	09/22/92	6.0	<0.41	1.6	12.9	0.24	0.28	14.9	6.1
HA-04	09/28/92	1.5	<0.44	2.0	33.9	0.22	1.0	18.2	15.9
HA-04	09/28/92	3.0	<0.39	3.0	71.1	0.20	2.7	55.6	43.3
HA-05	09/22/92	4.5	<0.30	2.1	14.6	0.23	0.20	13.8	4.9
HA-05	09/22/92	6.0	<0.43	1.7	16.9	0.23	0.24	14.2	4.6
HA-06	09/21/92	4.5	<0.35	0.78	10.9	0.25	0.28	16.4	5.8
HA-06	09/21/92	6.0	<0.39	0.59	12.2	0.23	0.22	16.8	5.2
HA-07	09/16/92	1.5	0.37	2.4	111	0.40	4.2	96.2	71.9
HA-07	09/16/92	3.0	<0.39	1.7	70.3	0.30	1.8	48.2	33.7
HA-08	09/18/92	3.0	<0.36	1.4	19.9	0.25	0.30	18.1	42.1
HA-08	09/18/92	4.5	<0.38	1.5	18.1	0.24	0.23	14.9	18.1
HA-09	09/29/92	1.5	<0.42	5.3	53.3	0.28	1.0	60.8	24.9
HA-10	09/18/92	1.5	<0.34	3.1	52.4	0.18	1.8	49.4	36.4
HA-10	09/29/92	4.5	<0.40	1.9	14.8	0.20	0.24	17.2	5.9

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 2B of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Mercury mg/kg	Nickel mg/kg	Lead mg/kg	Zinc mg/kg
CP-121	10/07/92	2.0	<0.019	15.1	3.6	22.4
CP-121	10/07/92	6.0	<0.018	24.8	1.9	30.2
CP-122A	10/08/92	2.0	0.025	29.5	5.7	29.2
CP-122A	10/08/92	6.0	0.15	31.6	7.4	31.7
CP-122A	10/09/92	14.0	<0.019	32.9	2.2	24.5
CP-122B	01/19/93	2.0	0.063	19.2	28.8	109
CP-122B	01/19/93	6.0	<0.019	21.6	6.6	30.8
CP-122B	01/19/93	22.0	0.022	17.8	1.6	16.0
CP-122B	02/24/93	32.0	<0.027	21.7	1.5	21.4
CP-122B	02/24/93	39.0	<0.024	16.8	0.91	18.7
CP-122C	01/18/93	2.0	0.036	21.1	15.1	37.7
CP-122C	01/18/93	6.0	<0.019	23.6	2.3	65.2
HA-03	09/22/92	4.5	<0.020	18.6	2.4	16.2
HA-03	09/22/92	6.0	<0.020	20.1	5.0	18.1
HA-04	09/28/92	1.5	0.069	24.7	143	138
HA-04	09/28/92	3.0	0.13	30.2	281	261
HA-05	09/22/92	4.5	<0.020	17.0	3.0	17.1
HA-05	09/22/92	6.0	<0.019	19.0	4.5	19.8
HA-06	09/21/92	4.5	<0.020	20.5	7.0	24.3
HA-06	09/21/92	6.0	<0.019	20.7	4.6	18.7
HA-07	09/16/92	1.5	0.16	35.8	326	395
HA-07	09/16/92	3.0	0.030	25.6	152	196
HA-08	09/18/92	3.0	<0.020	19.6	10.6	27.3
HA-08	09/18/92	4.5	<0.020	22.4	8.0	20.9
HA-09	09/29/92	1.5	0.11	28.1	155	151
HA-10	09/18/92	1.5	0.034	19.5	34.2	135
HA-10	09/29/92	4.5	<0.018	21.1	9.6	32.0

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 3A of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Silver mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg
HA-10	09/29/92	5.0	<0.40	1.7	15.3	0.23	0.43	18.8	8.4
HA-11	09/17/92	1.5	<0.37	1.6	35.5	0.30	0.51	57.1	11.8
HA-11	09/17/92	6.0	<0.35	1.6	15.6	0.20	0.37	26.4	5.4
HA-12	09/17/92	5.0	<0.36	1.5	13.1	0.19	0.23	10.9	4.1
HA-12	09/17/92	6.0	<0.39	0.96	16.3	<0.19	0.26	11.9	4.3

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Data qualifiers presented in Appendix A

TABLE 3

Metals Detected in Soil

Page: 3B of 3B

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	Mercury mg/kg	Nickel mg/kg	Lead mg/kg	Zinc mg/kg
HA-10	09/29/92	5.0	<0.19	21.3	15.4	32.4
HA-11	09/17/92	1.5	<0.020	37.0	41.7	68.4
HA-11	09/17/92	6.0	<0.019	17.0	9.2	42.7
HA-12	09/17/92	5.0	<0.020	14.4	14.4	16.3
HA-12	09/17/92	6.0	<0.017	14.6	8.6	17.9

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Data qualifiers presented in Appendix A

TABLE 4

PCBs Detected in Soil

Pier 91 Facility

Page: 1A of 3A

Date: 09/14/93

SITE	DATE	DEPTH	PCB-1248 ppb	PCB-1254 ppb	PCB-1260 ppb	15/Kg
CP-106B	01/25/93	2.0	---	---	386	
CP-106B	01/25/93	6.0	---	---	98	
CP-106B	01/25/93	18.0	<42	<42	<42	
CP-106B	02/19/93	35.0	<0.040	<0.040	<0.040	
CP-106B	02/19/93	39.0	<0.040	<0.040	<0.040	
CP-111	10/10/92	2.0	<33	<33	<33	
CP-111	10/10/92	6.0	<33	<33	<33	
CP-112	10/10/92	2.0	<33	<33	<33	
CP-112	10/10/92	6.0	<33	<33	<33	
CP-113	10/11/92	2.0	<33	<33	<33	
CP-113	10/11/92	6.0	<33	<33	<33	
CP-114	10/08/92	2.0	<33	<33	<33	
CP-114	10/08/92	6.0	<33	<33	<33	
CP-115A	10/08/92	2.0	<33	<33	<33	
CP-115A	10/08/92	6.0	<33	<33	<33	
CP-115B	02/02/93	18.0	<43	<43	<43	
CP-115B	02/09/93	36.0	<42	<42	<42	
CP-115B	02/12/93	38.0	<0.39	<0.39	<0.39	
CP-116	09/23/92	2.0	---	660	640	
CP-116	10/05/92	2.0	---	60	60	
CP-116	10/05/92	6.0	---	80	90	
CP-117	09/24/92	2.0	910	880	---	
CP-117	09/24/92	6.0	350	140	140	
CP-118	10/01/92	2.0	---	---	160	
CP-118	10/01/92	6.0	---	70	70	
CP-119	09/28/92	2.0	---	830	350	
CP-119	09/28/92	6.0	---	410	520	

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Data qualifiers presented in Appendix A

TABLE 4

PCBs Detected in Soil

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Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	PCB-1248 ppb	PCB-1254 ppb	PCB-1260 ppb
CP-121	10/07/92	2.0	<33	<33	<33
CP-121	10/07/92	6.0	<33	<33	<33
CP-122A	10/08/92	2.0	<33	<33	<33
CP-122A	10/08/92	6.0	<33	<33	<33
CP-122A	10/09/92	14.0	<33	<33	<33
CP-122B	01/19/93	2.0	<45	<45	<45
CP-122B	01/19/93	6.0	<40	<40	<40
CP-122B	01/19/93	22.0	<41	<41	<41
CP-122B	02/24/93	32.0	<0.040	<0.040	<0.040
CP-122B	02/24/93	39.0	<0.038	<0.038	<0.038
CP-122C	01/18/93	2.0	<38	<38	<38
CP-122C	01/18/93	6.0	<39	<39	<39
HA-03	09/22/92	4.5	---	---	304
HA-03	09/22/92	6.0	---	---	8500
HA-04	09/28/92	1.5	---	1400	---
HA-04	09/28/92	3.0	---	1800	---
HA-05	09/22/92	4.5	690	---	670
HA-05	09/22/92	6.0	---	---	13
HA-06	09/21/92	4.5	---	180	70
HA-06	09/21/92	6.0	---	---	2 J
HA-07	09/16/92	1.5	---	400	---
HA-07	09/16/92	3.0	---	200	---
HA-08	09/18/92	3.0	---	110	70
HA-08	09/18/92	4.5	---	60	20
HA-09	09/29/92	1.5	---	780	610
HA-10	09/18/92	1.5	---	460	510
HA-10	09/29/92	4.5	---	110	600

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Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 4

PCBs Detected in Soil

Page: 3A of 3A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	PCB-1248 ppb	PCB-1254 ppb	PCB-1260 ppb
HA-10	09/29/92	5.0	---	100	60
HA-11	09/17/92	1.5	---	3030	1180
HA-11	09/17/92	6.0	---	13	---
HA-12	09/17/92	5.0	---	320	120
HA-12	09/17/92	6.0	0	260	360

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Data qualifiers presented in Appendix A

TABLE 5

TPH Detected in Soil
USEPA Methods 418.1 and 8015 (Modified)

Page: 1A of 3A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	TPH	TPH
			418.1	USEPA Method 8015 (Modified)
			mg/kg	mg/kg
CP-106B	01/25/93	2.0	14000	13000 EX
CP-106B	01/25/93	6.0	12000	7500 X
CP-106B	01/25/93	18.0	160	170
CP-106B	02/19/93	35.0	35	<10
CP-106B	02/19/93	39.0	20	<10
CP-111	10/10/92	2.0	2200	11000
CP-111	10/10/92	6.0	3700	6300
CP-112	10/10/92	2.0	420	2400
CP-112	10/10/92	6.0	64	120
CP-113	10/11/92	2.0	35	60
CP-113	10/11/92	6.0	2000	2200
CP-114	10/08/92	2.0	840	1300 X
CP-114	10/08/92	6.0	480	1900 X
CP-115A	10/08/92	2.0	36	50 X
CP-115A	10/08/92	6.0	13000	22000 EX
CP-115B	02/02/93	18.0	31	<10
CP-115B	02/09/93	36.0	14	<10
CP-115B	02/12/93	38.0	35	<10
CP-116	09/23/92	2.0	38000	42000 X
CP-116	10/05/92	2.0	11000	9300 EX
CP-116	10/05/92	6.0	14000	8100
CP-117	09/24/92	2.0	36000	38000 X
CP-117	09/24/92	6.0	28000	24000 X
CP-118	10/01/92	2.0	22000	18000 X
CP-118	10/01/92	6.0	18000	32000 X
CP-119	09/28/92	2.0	60000	45000 X
CP-119	09/28/92	6.0	20000	37000 X

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Data qualifiers presented in Appendix A

TABLE 5

TPH Detected in Soil
USEPA Methods 418.1 and 8015 (Modified)

Page: 2A of 3A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	DEPTH	TPH	TPH
			418.1	USEPA Method 8015 (Modified)
			mg/kg	mg/kg
CP-121	10/07/92	2.0	46	<10
CP-121	10/07/92	6.0	1100	468
CP-122A	10/08/92	2.0	36	140 X
CP-122A	10/08/92	6.0	180	415 X
CP-122A	10/09/92	14.0	510	980
CP-122B	01/19/93	2.0	900	2600 X
CP-122B	01/19/93	6.0	630	570
CP-122B	01/19/93	22.0	22	15
CP-122B	02/24/93	32.0	26	<10
CP-122B	02/24/93	39.0	24	<10
CP-122C	01/18/93	2.0	5900	14000 X
CP-122C	01/18/93	6.0	8200	6200 X
HA-03	09/22/92	4.5	9200	19000 X
HA-03	09/22/92	6.0	29000	34000 EX
HA-04	09/28/92	1.5	56000	52000 X
HA-04	09/28/92	3.0	67000	92000 X
HA-05	09/22/92	4.5	35000	55000 EX
HA-05	09/22/92	6.0	15000	20000 E
HA-06	09/21/92	4.5	19000	22000 X
HA-06	09/21/92	6.0	5600	13000 EX
HA-07	09/16/92	1.5	59000	32000 X
HA-07	09/16/92	3.0	66000	46000 X
HA-08	09/18/92	3.0	21000	21000
HA-08	09/18/92	4.5	14000	18000
HA-09	09/29/92	1.5	76000	38000 X
HA-10	09/18/92	1.5	26000	51000 E
HA-10	09/29/92	4.5	29000	37000 X

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Data qualifiers presented in Appendix A

TABLE 5

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Date: 09/14/93

TPH Detected in Soil
USEPA Methods 418.1 and 8015 (Modified)

Pier 91 Facility

SITE	DATE	DEPTH	TPH	TPH
			418.1	USEPA Method 8015 (Modified)
			mg/kg	mg/kg
HA-10	09/29/92	5.0	28000	27000 X
HA-11	09/17/92	1.5	120000	97000 E
HA-11	09/17/92	6.0	11000	11000
HA-12	09/17/92	5.0	49000	48000 E
HA-12	09/17/92	6.0	40000	37000

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Data qualifiers presented in Appendix A

TABLE 6
VOCs Detected in Groundwater
USEPA Method 8240

Page: 1A of 2C

Date: 09/14/93

MW-39-3

Pier 91 Facility

SITE	DATE	Vinyl chloride ug/l	Methylene chloride ug/l	Acetone ug/l	1,1-DCE ug/l	1,1-DCA ug/l	1,2-DCE (Total) ug/l	Chloroform ug/l	1,2-DCA ug/l
CP-103A	04/06/93	<20	21 B	(2.1) JB	<10	<10	<10	<10	<10
CP-103A	07/07/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-103B	04/06/93	<10	(1.2) JB	(0.90) JB	<5	<5	<5	<5	<5
CP-103B	07/07/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-104A	04/05/93	(3.8) J	<5	(1.4) B	<5	15	<5	<5	<5
CP-104A	07/06/93	(2.6) J	<5	<25	<5	6.9	<5	<5	<5
CP-104B	04/05/93	<10	<5	<50	<5	(1.9) J	<5	<5	<5
CP-104B	07/06/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-105A	04/05/93	<10	<5	(1.3) JB	<5	<5	<5	<5	<5
CP-105A	07/06/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-105B	04/05/93	<10	<5	<50	<5	<5	<5	<5	<5
CP-105B	07/06/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-106A	04/08/93	<20	24 B	<100	<10	<10	<10	<10	<10
CP-106A	07/09/93	<10	<5	<25	<5	<5	<5	<5	<5
CP-106B	04/09/93	<20	54 B	(2.3) J	<10	<10	<10	<10	<10
CP-106B	07/09/93	<10	<5	<25	<5	<5	<5	<5	<5
CP-107	04/08/93	<20	42 B	(11) J	<10	(2.6) J	<10	<10	<10
CP-107	07/13/93	<20	36 B	<50	<10	<10	<10	<10	<10
CP-108A	04/06/93	<10	(1.9) JB	(1.1) JB	<5	<5	<5	<5	<5
CP-108A	07/07/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-108B	04/06/93	<10	<5	<50	<5	<5	<5	<5	<5
CP-108B	07/07/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-109	04/14/93	<10	<5	(9.2) JB	<5	(2.8) J	<5	<5	<5
CP-109	07/12/93	<20	<10	<50	<10	(2.0) J	<10	<10	<10
CP-110	04/12/93	<10	<5	<50	<5	<5	<5	<5	<5
CP-110	07/14/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-111	04/07/93	<20	62 JB	(2.8) JB	<10	<10	<10	<10	<10

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Data qualifiers presented in Appendix A

TABLE 6
VOCs Detected in Groundwater
USEPA Method 8240

Page: 2A of 2C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	Vinyl chloride ug/l	Methylene chloride ug/l	Acetone ug/l	1,1-DCE ug/l	1,1-DCA ug/l	1,2-DCE (Total) ug/l	Chloroform ug/l	1,2-DCA ug/l
CP-111	07/08/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-112	04/07/93	<10	(0.73) JB	<50	<5	(1.7) J	<5	<5	<5
CP-112	07/08/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-113	04/07/93	39	(1.3) JB	<50	<5	35	(1.8) J	(0.78) J	<5
CP-113	07/08/93	(9.0) J	<10	<50	<10	(9.4) J	<10	<10	<10
CP-114	04/07/93	<10	<5	<50	<5	<5	<5	<5	<5
CP-114	07/15/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-115A	04/09/93	<10	(2.9) JB	(4.3) J	<5	<5	<5	<5	<5
CP-115A	07/09/93	<10	<5	<25	<5	(0.85) J	<5	<5	<5
CP-115B	04/09/93	<10	54 JB	(1.5) J	<5	<5	<5	<5	<5
CP-115B	07/08/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-116	04/14/93	(7.5) J	<5	(18) JB	(0.21) J	96	<5	<5	<5
CP-116	07/14/93	(4.4) J	<10	(18) J	<10	58	<10	<10	<10
CP-117	04/14/93	<400	300 B	<2000	<200	270	<200	<200	<200
CP-117	07/14/93	<4000	<2000	<10000	<2000	<2000	<2000	<2000	<2000
CP-118	04/14/93	<20	19 B	(4.0) J	<10	(8.6) J	<10	<10	<10
CP-118	07/12/93	<20	<10	<50	<10	(9.0) J	<10	<10	<10
CP-119	04/14/93	<10	(2.5) JB	(13) J	<5	33	<5	<5	<5
CP-119	07/12/93	<20	<10	(2.0) J	<10	<10	<10	<10	<10
CP-121	04/12/93	<10	(4.0) JB	<50	<5	<5	<5	(0.77) J	(1.2) J
CP-121	07/08/93	<20	<10	<50	<10	<10	<10	<10	<10
CP-122B	04/09/93	<20	57 B	(3.5) J	<10	<10	<10	<10	<10
CP-122B	07/12/93	<20	<10	<50	<10	<10	<10	<10	<10

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Data qualifiers presented in Appendix A

TABLE 6
VOCs Detected in Groundwater
USEPA Method 8240

Page: 1B of 2C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	2-Butanone ug/l	1,1,1-TCA ug/l	TCE ug/l	Benzene ug/l	PCE ug/l	Toluene ug/l	Ethyl benzene ug/l	Total xylenes ug/l
CP-103A	04/06/93	<50	<10	<10	(2.2) J	<10	(4.3) J	<10	<10
CP-103A	07/07/93	<50	<10	(7.4) J	(8.6) J	<10	(5.2) J	(1.2) J	(2.8) J
CP-103B	04/06/93	<25	<5	6.8	<5	<5	<5	<5	<5
CP-103B	07/07/93	<50	<10	27	<10	<10	<10	<10	<10
CP-104A	04/05/93	<5	<5	(2.5) J	(1.1) J	<5	10	(4.2) J	20
CP-104A	07/06/93	<25	<5	<5	<5	<5	8.7	(4.9) J	27
CP-104B	04/05/93	<25	<5	12	<5	<5	(2.3) J	(2.8) J	(4.9) J
CP-104B	07/06/93	<50	<10	(9.4) J	<10	<10	<10	<10	<10
CP-105A	04/05/93	<25	<5	(1.8) J	<5	<5	<5	<5	<5
CP-105A	07/06/93	<50	<10	<10	<10	<10	<10	<10	<10
CP-105B	04/05/93	<25	<5	11	<5	<5	(2.3) J	(2.7) J	5.8
CP-105B	07/06/93	<50	<10	(8.6) J	<10	<10	<10	<10	<10
CP-106A	04/08/93	<50	<10	(1.8) J	<10	<10	<10	<10	<10
CP-106A	07/09/93	<25	<5	(2.0) J	<5	<5	<5	<5	(2.0) J
CP-106B	04/09/93	<50	<10	<10	<10	<10	<10	<10	<10
CP-106B	07/09/93	<25	<5	<5	<5	<5	<5	<5	<5
CP-107	04/08/93	<50	<10	<10	<10	<10	<10	<10	(4.0) J
CP-107	07/13/93	<50	<10	<10	(3.0) J	<10	(1.8) J	(2.6) J	(4.8) J
CP-108A	04/06/93	<25	<5	(2.1) J	<5	<5	(0.83) J	(1.2) J	(2.2) J
CP-108A	07/07/93	<50	<10	(4.4) J	<10	<10	<10	<10	<10
CP-108B	04/06/93	<25	<5	9.1	<5	<5	(2.3) J	(2.3) J	5.2
CP-108B	07/07/93	<50	<10	12	<10	<10	<10	<10	<10
CP-109	04/14/93	<25	<5	<5	29	<5	6.6	(3.4) J	(4.8) J
CP-109	07/12/93	<50	<10	<10	27	<10	(5.8) J	(2.6) J	(4.4) J
CP-110	04/12/93	<25	<5	<5	5.8	<5	(1.3) J	(1.7) J	(3.1) J
CP-110	07/14/93	<50	<10	<10	(4.8) J	<10	(1.3) J	(1.4) J	(1.6) J
CP-111	04/07/93	<50	<10	(4.6) J	<10	<10	(2.6) J	(2.0) J	(2.4) J

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Data qualifiers presented in Appendix A

TABLE 6

VOCs Detected in Groundwater
USEPA Method 8240

Page: 2B of 2C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	2-Butanone ug/l	1,1,1-TCA ug/l	TCE ug/l	Benzene ug/l	PCE ug/l	Toluene ug/l	Ethyl benzene ug/l	Total xylenes ug/l
CP-111	07/08/93	<50	<10	(3.6) J	<10	<10	<10	<10	<10
CP-112	04/07/93	<25	<5	(1.1) J	(1.8) J	<5	<5	<5	<5
CP-112	07/08/93	<50	<10	<10	<10	<10	<10	<10	<10
CP-113	04/07/93	<25	16	49	<5	<5	<5	<5	<5
CP-113	07/08/93	<50	(3.8) J	19	<10	<10	<10	<10	<10
CP-114	04/07/93	<25	<5	<5	<5	<5	<5	<5	<5
CP-114	07/15/93	<50	<10	12	<10	<10	<10	<10	<10
CP-115A	04/09/93	<25	<5	<5	<5	<5	<5	<5	<5
CP-115A	07/09/93	<25	<5	(1.4) J	<5	<5	<5	<5	<5
CP-115B	04/09/93	<25	<5	<5	<5	<5	<5	<5	<5
CP-115B	07/08/93	<50	<10	<10	<10	<10	<10	<10	<10
CP-116	04/14/93	(0.96) J	<5	<5	23	<5	5.5	12	27
CP-116	07/14/93	<50	<10	<10	24	<10	16	13	36
CP-117	04/14/93	<1000	<200	<200	(28) J	<200	1800	4100	11000
CP-117	07/14/93	<10000	<2000	<2000	<2000	<2000	2100	4100	10000
CP-118	04/14/93	<50	<10	<10	18	<10	<10	(5.0) J	10
CP-118	07/12/93	<50	<10	<10	16	<10	(1.4) J	(3.6) J	(6.4) J
CP-119	04/14/93	<25	<5	(1.9) J	45	<5	35	26	100
CP-119	07/12/93	<50	<10	(2.0) J	44	<10	28	26	100
CP-121	04/12/93	<25	(0.82) J	(3.3) J	<5	(0.69) J	<5	(1.4) J	(1.7) J
CP-121	07/08/93	<50	<10	<10	<10	<10	<10	(2.2) J	13
CP-122B	04/09/93	<50	<10	(2.6) J	<10	<10	<10	<10	<10
CP-122B	07/12/93	<50	<10	(4.2) J	<10	<10	<10	<10	<10

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Data qualifiers presented in Appendix A

TABLE 6

VOCs Detected in Groundwater
USEPA Method 8240

Page: 1C of 2C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	Chloroethane ug/l
CP-103A	04/06/93	(10) J
CP-103A	07/07/93	(17) J
CP-103B	04/06/93	<10
CP-103B	07/07/93	<20
CP-104A	04/05/93	(4.1) J
CP-104A	07/06/93	(2.5) J
CP-104B	04/05/93	<10
CP-104B	07/06/93	<20
CP-105A	04/05/93	<10
CP-105A	07/06/93	<20
CP-105B	04/05/93	<10
CP-105B	07/06/93	<20
CP-106A	04/08/93	<20
CP-106A	07/09/93	<10
CP-106B	04/09/93	<20
CP-106B	07/09/93	<10
CP-107	04/08/93	55
CP-107	07/13/93	<20
CP-108A	04/06/93	<10
CP-108A	07/07/93	<20
CP-108B	04/06/93	<10
CP-108B	07/07/93	<20
CP-109	04/14/93	76
CP-109	07/12/93	80
CP-110	04/12/93	24
CP-110	07/14/93	(18) J
CP-111	04/07/93	(4.2) J

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Data qualifiers presented in Appendix A

TABLE 6
VOCs Detected in Groundwater
USEPA Method 8240

Page: 2C of 2C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	Chloroethane ug/l
CP-111	07/08/93	(8.0) J
CP-112	04/07/93	(3.2) J
CP-112	07/08/93	(5.8) J
CP-113	04/07/93	<10
CP-113	07/08/93	<20
CP-114	04/07/93	<10
CP-114	07/15/93	<20
CP-115A	04/09/93	<10
CP-115A	07/09/93	<10
CP-115B	04/09/93	<10
CP-115B	07/08/93	<20
CP-116	04/14/93	(4.7) J
CP-116	07/14/93	<20
CP-117	04/14/93	(210) J
CP-117	07/14/93	<4000
CP-118	04/14/93	(9.4) J
CP-118	07/12/93	(6.0) J
CP-119	04/14/93	140
CP-119	07/12/93	86
CP-121	04/12/93	<10
CP-121	07/08/93	<20
CP-122B	04/09/93	<20
CP-122B	07/12/93	<20

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 Hits only # = Highest of Multiple Results ??? = Duplicate Results
 Data qualifiers presented in Appendix A

TABLE 7
SVOCs Detected in Soil
USEPA Method 8270

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Date: 09/14/93

Pier 91 Facility

SITE	DATE	4-Methylphenol ug/l	2,4-Dimethyl phenol ug/l	Naphthalene ug/l	4-Chloro-3- methylphenol ug/l	2-Methyl naphthalene ug/l	Acenaphthene ug/l	Dibenzofuran ug/l	Fluorene ug/l
CP-103A	04/06/93	(5.3) J	<9.9	<9.9	<20	<9.9	<9.9	<9.9	<9.9
CP-103A	07/07/93	---	---	---	---	---	---	---	---
CP-103B	04/06/93	<11	<11	<11	<21	<11	<11	<11	<11
CP-103B	07/07/93	---	---	---	---	---	---	---	---
CP-104A	04/05/93	<9.8	<9.8	(5.5) J	<20	(3.9) J	42	(4.8) J	27
CP-104A	07/06/93	<10	<10	<10	<19	<10	23	(2.6) J	(8.9) J
CP-104B	04/05/93	<28	<28	<28	<57	<28	<28	<28	<28
CP-104B	07/06/93	---	---	---	---	---	---	---	---
CP-105A	04/05/93	<9.6	<9.6	<9.6	<19	<9.6	<9.6	<9.6	<9.6
CP-105A	07/06/93	---	---	---	---	---	---	---	---
CP-105B	04/05/93	<30	<30	<30	<60	<30	<30	<30	<30
CP-105B	07/06/93	---	---	---	---	---	---	---	---
CP-106A	04/08/93	<9.8	<9.8	<9.8	<20	<9.8	<9.8	<9.8	<9.8
CP-106A	07/09/93	---	---	---	---	---	---	---	---
CP-106B	04/09/93	<10	<10	<10	<20	<10	<10	<10	<10
CP-106B	07/09/93	---	---	---	---	---	---	---	---
CP-107	04/08/93	<9.9	<9.9	<9.9	<20	(3.6) J	(4.0) J	(1.8) J	(7.6) J
CP-107	07/13/93	<10	<10	<10	<19	(3.7) J	(3.1) J	(1.6) J	(6.2) J
CP-108A	04/06/93	<9.9	<9.9	<9.9	<20	<9.9	<9.9	<9.9	<9.9
CP-108A	07/07/93	---	---	---	---	---	---	---	---
CP-108B	04/06/93	<10	<10	<10	<20	<10	<10	<10	<10
CP-108B	07/07/93	---	---	---	---	---	---	---	---
CP-109	04/14/93	<9.1	<9.1	14	<18	62	<9.1	(1.7) J	(3.8) J
CP-109	07/12/93	---	---	---	---	---	---	---	---
CP-110	04/12/93	<9.6	<9.6	<9.6	<19	(2.7) J	(2.6) J	<9.6	(6.8) J
CP-111	04/07/93	<110	<110	<110	<210	<110	<110	<110	<110
CP-111	07/08/93	---	---	---	---	---	---	---	---

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Values represent total concentrations unless noted

Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 7
SVOCs Detected in Soil
USEPA Method 8270

Page: 1B of 3C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	Hexachloro benzene ug/l	Phenanthrene ug/l	Anthracene ug/l	Di-n-butyl- phthalate ug/l	Fluoranthene ug/l	Pyrene ug/l	Benzo(a) anthracene ug/l	Chrysene ug/l
CP-103A	04/06/93	<9.9	<9.9	<9.9	(4.7)	<9.9	<9.9	<9.9	<9.9
CP-103A	07/07/93	---	---	---	---	---	---	---	---
CP-103B	04/06/93	<11	<11	<11	(4.4) J	<11	<11	<11	<11
CP-103B	07/07/93	---	---	---	---	---	---	---	---
CP-104A	04/05/93	<9.8	(4.0) J	(2.4) J	(7.7) J	(5.7) J	(2.7) J	<9.8	<9.8
CP-104A	07/06/93	(3.2) JB	<10	<10	(3.2) J	<10	<10	<10	<10
CP-104B	04/05/93	<28	<28	<28	<28	<28	<28	<28	<28
CP-104B	07/06/93	---	---	---	---	---	---	---	---
CP-105A	04/05/93	<9.6	<9.6	<9.6	(9.1) J	<9.6	<9.6	<9.6	<9.6
CP-105A	07/06/93	---	---	---	---	---	---	---	---
CP-105B	04/05/93	<30	<30	<30	<30	<30	<30	<30	<30
CP-105B	07/06/93	---	---	---	---	---	---	---	---
CP-106A	04/08/93	<9.8	<9.8	<9.8	(4.2) J	<9.8	<9.8	<9.8	<9.8
CP-106A	07/09/93	---	---	---	---	---	---	---	---
CP-106B	04/09/93	<10	<10	<10	<10	<10	<10	<10	<10
CP-106B	07/09/93	---	---	---	---	---	---	---	---
CP-107	04/08/93	<9.9	(3.4) J	<9.9	(6.0) J	<9.9	<9.9	<9.9	<9.9
CP-107	07/13/93	<10	(2.5) J	<10	<10	<10	<10	<10	<10
CP-108A	04/06/93	<9.9	<9.9	<9.9	(5.8) J	<9.9	<9.9	<9.9	<9.9
CP-108A	07/07/93	---	---	---	---	---	---	---	---
CP-108B	04/06/93	<10	<10	<10	<10	<10	<10	<10	<10
CP-108B	07/07/93	---	---	---	---	---	---	---	---
CP-109	04/14/93	<9.1	(2.5) J	<9.1	11 B	<9.1	<9.1	<9.1	<9.1
CP-109	07/12/93	---	---	---	---	---	---	---	---
CP-110	04/12/93	<9.6	(4.1) J	<9.6	(1.4) J	<9.6	<9.6	<9.6	<9.6
CP-111	04/07/93	<110	<110	<110	<110	<110	<110	<110	<110
CP-111	07/08/93	---	---	---	---	---	---	---	---

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Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 7

SVOCs Detected in Soil
USEPA Method 8270

Page: 1C of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	bis(2-Ethyl hexyl)phthalate ug/l	Di-n-octyl phthalate ug/l	Benzo(b) fluoranthene ug/l	Benzo(k)fluor anthene ug/l	Benzo(a)pyrene ug/l	Indeno (1,2,3-c,d) pyrene ug/l	Benzo(g,h,i) perlyene ug/l
CP-103A	04/06/93	(1.8) J	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
CP-103A	07/07/93	---	---	---	---	---	---	---
CP-103B	04/06/93	11	<11	<11	<11	<11	<11	<11
CP-103B	07/07/93	---	---	---	---	---	---	---
CP-104A	04/05/93	(3.5) J	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
CP-104A	07/06/93	<10	<10	<10	<10	<10	<10	<10
CP-104B	04/05/93	46	(4.3) J	<28	<28	<28	<28	<28
CP-104B	07/06/93	---	---	---	---	---	---	---
CP-105A	04/05/93	(2.8)	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
CP-105A	07/06/93	---	---	---	---	---	---	---
CP-105B	04/05/93	(26) J	<30	<30	<30	<30	<30	<30
CP-105B	07/06/93	---	---	---	---	---	---	---
CP-106A	04/08/93	(2.8) J	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
CP-106A	07/09/93	---	---	---	---	---	---	---
CP-106B	04/09/93	<10	<10	<10	<10	<10	<10	<10
CP-106B	07/09/93	---	---	---	---	---	---	---
CP-107	04/08/93	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
CP-107	07/13/93	<10	<10	<10	<10	<10	<10	<10
CP-108A	04/06/93	(1.6) J	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
CP-108A	07/07/93	---	---	---	---	---	---	---
CP-108B	04/06/93	23	<10	<10	<10	<10	<10	<10
CP-108B	07/07/93	---	---	---	---	---	---	---
CP-109	04/14/93	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1
CP-109	07/12/93	---	---	---	---	---	---	---
CP-110	04/12/93	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
CP-111	04/07/93	<110	<110	<110	<110	<110	<110	<110
CP-111	07/08/93	---	---	---	---	---	---	---

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Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 7

SVOCs Detected in Soil
USEPA Method 8270

Page: 2A of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	4-Methylphenol ug/l	2,4-Dimethyl phenol ug/l	Naphthalene ug/l	4-Chloro-3- methylphenol ug/l	2-Methyl naphthalene ug/l	Acenaphthene ug/l	Dibenzofuran ug/l	Fluorene ug/l
CP-112	04/07/93	<9.9	<9.9	<9.9	<20	<9.9	<9.9	<9.9	<9.9
CP-112	07/08/93	<10	<10	<10	<19	<10	(2.8) J	<10	<10
CP-113	04/07/93	<9.8	<9.8	<9.8	<20	<9.8	<9.8	<9.8	<9.8
CP-113	07/08/93	---	---	---	---	---	---	---	---
CP-114	04/07/93	<10	<10	<10	<20	<10	<10	<10	<10
CP-115A	04/09/93	<98	<98	<98	<200	<98	<98	<98	<98
CP-115A	07/09/93	---	---	---	---	---	---	---	---
CP-115B	04/09/93	<10	<10	<10	<21	<10	<10	<10	<10
CP-115B	07/08/93	---	---	---	---	---	---	---	---
CP-116	04/14/93	<20	(15) J	<20	200	<20	(2.4) J	<20	<20
CP-117	04/14/93	(190) J	<220	(57) J	<450	(45) J	<220	<220	<220
CP-118	04/14/93	<18	<18	18 J	76	130	(4.0) J	(3.9) J	(9.5) J
CP-118	07/12/93	---	---	---	---	---	---	---	---
CP-119	04/14/93	<100	<100	120	<210	260	<100	<100	(22) J
CP-119	07/12/93	---	---	---	---	---	---	---	---
CP-121	04/12/93	<9.6	<9.6	<9.6	<19	<9.6	<9.6	<9.6	<9.6
CP-121	07/08/93	---	---	---	---	---	---	---	---
CP-122B	04/09/93	<10	<10	<10	<21	<10	<10	<10	<10
CP-122B	07/12/93	---	---	---	---	---	---	---	---
CP-S-1	10/05/92	<73000	<73000	(28000) J	<150000	100000	<73000	<73000	(18000) J
CP-S-2	10/05/92	<1400000	<1400000	<1400000	<2800000	(410000) JE	<1400000	<1400000	<1400000
CP-S-3	10/05/92	<420000	<420000	(77000) J	<840000	3700000 JE	<420000	<420000	<420000
CP-S-4	10/05/92	<390000	<390000	<390000	<790000	(280000) J	<390000	<390000	<390000
CP-S-5	10/05/92	<670000	<670000	<670000	<1300000	(200000) J	<670000	<670000	<670000
CP-S-6	10/05/92	<710000	<710000	<710000	<1400000	(240000) J	<710000	<710000	<710000
MW-39-3	04/14/93	<10	<10	(3.2) J	<20	35	(7.3) J	<10	10
MW-39-3	07/13/93	<10	<10	(1.4) J	<19	27	(4.6) J	(1.3) J	(6.9) J

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Data qualifiers presented in Appendix A

TABLE 7

SVOCs Detected in Soil
USEPA Method 8270

Page: 2B of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	Hexachloro benzene ug/l	Phenanthrene ug/l	Anthracene ug/l	Di-n-butyl- phthalate ug/l	Fluoranthene ug/l	Pyrene ug/l	Benzo(a) anthracene ug/l	Chrysene ug/l
CP-112	04/07/93	<9.9	<9.9	<9.9	(3.0) J	<9.9	<9.9	<9.9	<9.9
CP-112	07/08/93	<10	<10	<10	<10	<10	<10	<10	<10
CP-113	04/07/93	<9.8	<9.8	<9.8	(3.1) J	<9.8	<9.8	<9.8	<9.8
CP-113	07/08/93	---	---	---	---	---	---	---	---
CP-114	04/07/93	<10	<10	<10	<10	<10	<10	<10	<10
CP-115A	04/09/93	<98	<98	<98	<98	<98	<98	<98	<98
CP-115A	07/09/93	---	---	---	---	---	---	---	---
CP-115B	04/09/93	<10	<10	<10	(5.0) J	<10	<10	<10	<10
CP-115B	07/08/93	---	---	---	---	---	---	---	---
CP-116	04/14/93	<20	(1.9) J	<20	(16) JB	<20	<20	<20	<20
CP-117	04/14/93	<220	<220	<220	<220	<220	<220	<220	<220
CP-118	04/14/93	<18	(5.7) J	<18	(13) JB	<18	<18	<18	<18
CP-118	07/12/93	---	---	---	---	---	---	---	---
CP-119	04/14/93	<100	(33) J	<100	<100	<100	<100	<100	<100
CP-119	07/12/93	---	---	---	---	---	---	---	---
CP-121	04/12/93	<9.6	<9.6	<9.6	(2.4) J	<9.6	<9.6	<9.6	<9.6
CP-121	07/08/93	---	---	---	---	---	---	---	---
CP-122B	04/09/93	<10	<10	<10	<10	<10	<10	<10	<10
CP-122B	07/12/93	---	---	---	---	---	---	---	---
CP-S-1	10/05/92	<73000	180000	(14000) J	(8900) JB	(19000) J	180000	110000	120000
CP-S-2	10/05/92	<1400000	(850000) J	<1400000	(110000) JB	<1400000	(770000) J	<1400000	(830000) J
CP-S-3	10/05/92	<420000	440000	<420000	590000 B	(69000) J	520000	<420000	450000
CP-S-4	10/05/92	<390000	(320000) J	<390000	390000 B	(51000) J	390000	<390000	430000
CP-S-5	10/05/92	<670000	(310000) J	<670000	<670000	<670000	(320000) J	<670000	(440000) J
CP-S-6	10/05/92	<710000	(410000) J	<710000	<710000	<710000	(460000) J	<710000	(500000) J
MW-39-3	04/14/93	<10	(4.2) J	<10	11 B	<10	<10	<10	<10
MW-39-3	07/13/93	<10	(3.0) J	<10	<10	<10	<10	<10	<10

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Data qualifiers presented in Appendix A

TABLE 7

SVOCs Detected in Soil
USEPA Method 8270

Page: 2C of 3C

Date: 09/14/93

Pier 91 Facility

SITE	DATE	bis(2-Ethyl hexyl)phthalate ug/l	Di-n-octyl phthalate ug/l	Benzo(b) fluoranthene ug/l	Benzo(k)fluor anthene ug/l	Benzo(a)pyrene ug/l	Indeno (1,2,3-c,d) pyrene ug/l	Benzo(g,h,i) perylene ug/l
CP-112	04/07/93	(2.2) J	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
CP-112	07/08/93	<10	<10	<10	<10	<10	<10	<10
CP-113	04/07/93	(6.2) J	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
CP-113	07/08/93	--	--	--	--	--	--	--
CP-114	04/07/93	<10	<10	<10	<10	<10	<10	<10
CP-115A	04/09/93	(19) J	<98	<98	<98	<98	<98	<98
CP-115A	07/09/93	--	--	--	--	--	--	--
CP-115B	04/09/93	<10	<10	<10	<10	<10	<10	<10
CP-115B	07/08/93	--	--	--	--	--	--	--
CP-116	04/14/93	<20	<20	<20	<20	<20	<20	<20
CP-117	04/14/93	<220	<220	<220	<220	<220	<220	<220
CP-118	04/14/93	<18	<18	<18	<18	<18	<18	<18
CP-118	07/12/93	--	--	--	--	--	--	--
CP-119	04/14/93	<100	<100	<100	<100	<100	<100	<100
CP-119	07/12/93	--	--	--	--	--	--	--
CP-121	04/12/93	(1.6) J	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6
CP-121	07/08/93	--	--	--	--	--	--	--
CP-122B	04/09/93	<10	<10	<10	<10	<10	<10	<10
CP-122B	07/12/93	--	--	--	--	--	--	--
CP-S-1	10/05/92	170000	<73000	(35000) J	<73000	(42000) J	(8400) J	(22000) J
CP-S-2	10/05/92	<1400000	<1400000	(330000) J	<1400000	(260000) J	<1400000	<1400000
CP-S-3	10/05/92	(170000) J	<420000	(68000) J	<420000	(130000) J	<420000	(120000) J
CP-S-4	10/05/92	(230000) J	<390000	(71000) J	<390000	(140000) J	<390000	(160000) J
CP-S-5	10/05/92	<670000	<670000	(110000) J	<670000	(130000) J	<670000	<670000
CP-S-6	10/05/92	<710000	<710000	(83000) J	<710000	(140000) J	<710000	<710000
MW-39-3	04/14/93	<10	<10	<10	<10	<10	<10	<10
MW-39-3	07/13/93	<10	<10	<10	<10	<10	<10	<10

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Values represent total concentrations unless noted

Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 7
SVOCs Detected in Soil
USEPA Method 8270

Page: 3A of 3C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	4-Methylphenol ug/l	2,4-Dimethyl phenol ug/l	Naphthalene ug/l	4-Chloro-3- methylphenol ug/l	2-Methyl naphthalene ug/l	Acenaphthene ug/l	Dibenzofuran ug/l	Fluorene ug/l
W-10	04/14/93	<9.2	<9.2	19	<18	24	(3.5) J	(3.9) J	(6.1) J

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Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 7
SVOCs Detected in Soil
USEPA Method 8270

Page: 3B of 3C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	Hexachloro benzene ug/l	Phenanthrene ug/l	Anthracene ug/l	Di-n-butyl- phthalate ug/l	Fluoranthene ug/l	Pyrene ug/l	Benzo(a) anthracene ug/l	Chrysene ug/l
W-10	04/14/93	<9.2	(4.3) J	<9.2	20 B	<9.2	<9.2	<9.2	<9.2

TABLE 7
SVOCs Detected in Soil
USEPA Method 8270

Page: 3C of 3C
Date: 09/14/93

Pier 91 Facility

SITE	DATE	bis(2-Ethyl hexyl)phthalate ug/l	Di-n-octyl phthalate ug/l	Benzo(b) fluoranthene ug/l	Benzo(k)fluor anthene ug/l	Benzo(a)pyrene ug/l	Indeno (1,2,3-c,d) pyrene ug/l	Benzo(g,h,i) perylene ug/l
W-10	04/14/93	<9.2	<9.2	<9.2	(2.3) J	<9.2	<9.2	<9.2

< = Not detected at indicated reporting limit --- = Not sampled and/or analyzed Values represent total concentrations unless noted

Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 8
Total Metals Detected in Groundwater

Page: 1A of 2A
Date: 09/14/93

Pier 91 Facility

SITE	DATE	Arsenic mg/l	Chromium mg/l	Copper mg/l	Nickel mg/l	Lead mg/l	Zinc mg/l
CP-103A	04/06/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-103A	07/07/93	---	---	---	---	---	---
CP-103B	04/06/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-103B	07/07/93	---	---	---	---	---	---
CP-104A	04/05/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-104A	07/06/93	0.010	<0.010	0.042	<0.040	0.005	<0.020
CP-104B	04/05/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-104B	07/06/93	---	---	---	---	---	---
CP-105A	04/05/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-105A	07/06/93	---	---	---	---	---	---
CP-105B	04/05/93	<0.010	<0.010	0.054	<0.040	<0.003	<0.020
CP-105B	07/06/93	---	---	---	---	---	---
CP-106A	04/08/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-106A	07/09/93	---	---	---	---	---	---
CP-106B	04/09/93	<0.010	0.019	<0.025	<0.040	<0.006	<0.020
CP-106B	07/09/93	---	---	---	---	---	---
CP-107	04/08/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-107	07/13/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-108A	04/06/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-108A	07/07/93	---	---	---	---	---	---
CP-108B	04/06/93	<0.010	0.011	<0.025	<0.040	<0.003	<0.020
CP-108B	07/07/93	---	---	---	---	---	---
CP-109	04/14/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-109	07/12/93	---	---	---	---	---	---
CP-110	04/12/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-111	04/07/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-111	07/08/93	---	---	---	---	---	---

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Data qualifiers presented in Appendix A

TABLE 8
Total Metals Detected in Groundwater

Page: 2A of 2A
Date: 09/14/93

Pier 91 Facility

SITE	DATE	Arsenic mg/l	Chromium mg/l	Copper mg/l	Nickel mg/l	Lead mg/l	Zinc mg/l
CP-112	04/07/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-112	07/08/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-113	04/07/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-113	07/08/93	---	---	---	---	---	---
CP-114	04/07/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-115A	04/09/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-115A	07/09/93	---	---	---	---	---	---
CP-115B	04/09/93	<0.010	0.040	<0.025	0.040	0.005	0.048
CP-115B	07/08/93	---	---	---	---	---	---
CP-116	04/14/93	<0.010	<0.010	<0.025	<0.040	0.004	<0.020
CP-117	04/14/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-118	04/14/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-118	07/12/93	---	---	---	---	---	---
CP-119	04/14/93	<0.010	0.016	<0.025	<0.040	<0.009	<0.030
CP-119	07/12/93	---	---	---	---	---	---
CP-121	04/12/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
CP-121	07/08/93	---	---	---	---	---	---
CP-122B	04/09/93	<0.010	0.033	<0.025	<0.040	<0.003	0.023
CP-122B	07/12/93	---	---	---	---	---	---
MW-39-3	04/14/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020
MW-39-3	07/13/93	<0.010	<0.005	<0.025	<0.040	<0.003	<0.020
W-10	04/14/93	<0.010	<0.010	<0.025	<0.040	<0.003	<0.020

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Data qualifiers presented in Appendix A

TABLE 9

Dissolved Metals Detected in Groundwater

Page: 1A of 3A

Date: 09/14/93

Pier 91 Facility

Dissolved		
SITE	DATE	Chromium mg/l
CP-103A	04/06/93	<0.010
CP-103A	07/07/93	---
CP-103B	04/06/93	<0.010
CP-103B	07/07/93	---
CP-104A	04/05/93	<0.010
CP-104A	07/06/93	<0.010
CP-104B	04/05/93	<0.010
CP-104B	07/06/93	---
CP-105A	04/05/93	<0.010
CP-105A	07/06/93	---
CP-105B	04/05/93	<0.010
CP-105B	07/06/93	---
CP-106A	04/08/93	<0.010
CP-106A	07/09/93	---
CP-106B	04/09/93	0.011
CP-106B	07/09/93	---
CP-107	04/08/93	<0.010
CP-107	07/13/93	<0.010
CP-108A	04/06/93	<0.010
CP-108A	07/07/93	---
CP-108B	04/06/93	0.011
CP-108B	07/07/93	---
CP-109	04/14/93	<0.010
CP-109	07/12/93	---
CP-110	04/12/93	<0.010
CP-110	07/14/93	---
CP-111	04/07/93	<0.010

< = Not detected at indicated reporting limit

--- = Not sampled and/or analyzed

Values represent total concentrations unless noted

Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 9

Dissolved Metals Detected in Groundwater

Page: 2A of 3A

Date: 09/14/93

Pier 91 Facility

Dissolved		
SITE	DATE	Chromium mg/l
CP-111	07/08/93	---
CP-112	04/07/93	<0.010
CP-112	07/08/93	<0.010
CP-113	04/07/93	<0.010
CP-113	07/08/93	---
CP-114	04/07/93	<0.010
CP-114	07/15/93	---
CP-115A	04/09/93	<0.010
CP-115A	07/09/93	---
CP-115B	04/09/93	0.011
CP-115B	07/08/93	---
CP-116	04/14/93	<0.010
CP-116	07/14/93	---
CP-117	04/14/93	<0.010
CP-117	07/14/93	---
CP-118	04/14/93	<0.010
CP-118	07/12/93	---
CP-119	04/14/93	<0.010
CP-119	07/12/93	---
CP-121	04/12/93	<0.010
CP-121	07/08/93	---
CP-122B	04/09/93	0.012
CP-122B	07/12/93	---
CP-S-1	10/05/92	---
CP-S-2	10/05/92	---
CP-S-3	10/05/92	---
CP-S-4	10/05/92	---

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Hits only # = Highest of Multiple Results ??? = Duplicate Results

Data qualifiers presented in Appendix A

TABLE 9

Dissolved Metals Detected in Groundwater

Page: 3A of 3A

Date: 09/14/93

Pier 91 Facility

Dissolved		
SITE	DATE	Chromium mg/l
CP-S-5	10/05/92	---
CP-S-6	10/05/92	---
MW-39-3	04/14/93	<0.010
MW-39-3	07/13/93	<0.005
W-10	04/14/93	<0.010
W-10	07/16/93	---

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o

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Data qualifiers presented in Appendix A

TABLE 10
PCBs Detected in Groundwater

Page: 1A of 1A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	PCB-1254 ppb
CP-119	04/14/93	0.41

TABLE 11

TPH Detected in Groundwater
USEPA Methods 418.1 and 8015 (Modified)

Page: 1A of 3A
Date: 09/14/93

Pier 91 Facility

SITE	DATE	TPFH	TPH
		Method 8015 (Modified) mg/l	418.1 mg/l
CP-103A	04/06/93	<0.75	<1.0
CP-103A	07/07/93	---	---
CP-103B	04/06/93	<0.75	<1.0
CP-103B	07/07/93	---	---
CP-104A	04/05/93	<0.75	15
CP-104A	07/06/93	<0.75	<1.0
CP-104B	04/05/93	<0.75	<1.0
CP-104B	07/06/93	---	---
CP-105A	04/05/93	<0.75	1.3
CP-105A	07/06/93	---	---
CP-105B	04/05/93	<0.75	<1.0
CP-105B	07/06/93	---	---
CP-106A	04/08/93	<0.75	1.8
CP-106A	07/09/93	---	---
CP-106B	04/09/93	<0.75	<1.0
CP-106B	07/09/93	---	---
CP-107	04/08/93	<0.75	3.5
CP-107	07/13/93	<0.75	5.5
CP-108A	04/06/93	<0.75	<1.0
CP-108A	07/07/93	---	---
CP-108B	04/06/93	<0.75	<1.0
CP-108B	07/07/93	---	---
CP-109	04/14/93	4.1	130
CP-109	07/12/93	---	---
CP-110	04/12/93	<0.75	<1.0
CP-110	07/14/93	---	---
CP-111	04/07/93	45	30

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Data qualifiers presented in Appendix A

TABLE 11

TPH Detected in Groundwater
USEPA Methods 418.1 and 8015 (Modified)

Page: 2A of 3A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	TPFH Method 8015 (Modified) mg/l	TPH 418.1 mg/l
CP-111	07/08/93	---	---
CP-112	04/07/93	<0.75	2.8
CP-112	07/08/93	<0.75	4.4
CP-113	04/07/93	<0.75	2.1
CP-113	07/08/93	---	---
CP-114	04/07/93	<0.75	<1.0
CP-114	07/15/93	---	---
CP-115A	04/09/93	3.0	4.4
CP-115A	07/09/93	---	---
CP-115B	04/09/93	<0.75	<1.0
CP-115B	07/08/93	---	---
CP-116	04/14/93	5.1	86
CP-116	07/14/93	---	---
CP-117	04/14/93	74	36
CP-117	07/14/93	---	---
CP-118	04/14/93	26	34
CP-118	07/12/93	---	---
CP-119	04/14/93	100	190
CP-119	07/12/93	---	---
CP-121	04/12/93	<0.75	<1.0
CP-121	07/08/93	---	---
CP-122B	04/09/93	<0.75	<1.0
CP-122B	07/12/93	---	---
CP-S-1	10/05/92	31000 E	86000
CP-S-2	10/05/92	340000 E	270000
CP-S-3	10/05/92	210000	230000
CP-S-4	10/05/92	250000 E	220000

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Data qualifiers presented in Appendix A

TABLE 11

TPH Detected in Groundwater
USEPA Methods 418.1 and 8015 (Modified)

Page: 3A of 3A

Date: 09/14/93

Pier 91 Facility

SITE	DATE	TPFH Method 8015 (Modified) mg/l	TPH 418.1 mg/l
CP-S-5	10/05/92	260000 E	130000
CP-S-6	10/05/92	200000	140000
MW-39-3	04/14/93	1.6	54
MW-39-3	07/13/93	<0.75	12
W-10	04/14/93	<0.75	27
W-10	07/16/93	---	---

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